

PB88-113196

National Air Toxics Information Clearinghouse
Ongoing Research and Regulatory
Development Projects, June 1987

Radian Corp., Research Triangle Park, NC

Prepared for

Environmental Protection Agency
Research Triangle Park, NC

Jun 87

U.S. Department of Commerce
National Technical Information Service
NTIS

REPORT DOCUMENTATION PAGE	1. REPORT NO.	2.	3. Recipient's Accession No. PB88 113196/AS
4. Title and Subtitle National Air Toxics Information Clearinghouse: Ongoing Research and Regulatory Development			5. Report Date June 1987
7. Author(s) Margaret L. Hanson, Caroline B. Brickley, and Alice Pelland			6.
9. Performing Organization Name and Address Radian Corporation 3200 East Chapel Hill Road/Progress Center P. O. Box 13000 Research Triangle Park, NC 27709			8. Performing Organization Rept. No.
12. Sponsoring Organization Name and Address US Environmental Protection Agency Office of Air Quality Planning & Standards Pollutant Assessment Branch Research Triangle Park, NC 27711			10. Project/Task/Work Unit No.
			11. Contract(C) or Grant(G) No. (C) EPA No. 68-02-4330 (G)
			13. Type of Report & Period Covered Interim
15. Supplementary Notes			14.
16. Abstract (Limit: 200 words) This document is divided into two parts and an appendix. The first part lists 235 air toxics projects currently in progress at EPA and NIOSH. A Brief description of each project and a contact name, office, and telephone number are given. The second part of the document contains the index that allows readers to locate projects of interest. Projects are indexed by agency, project type, chemical name, CAS number, and air pollution source type. The appendix lists regulatory development projects on toxic chemicals under-way at the EPA's Office of Drinking Water (ODW). While most of these projects are not directly related to air problems, health information on toxic chemicals from ODW projects may be of interest to Clearinghouse users.			
17. Document Analysis a. Descriptors Toxic Air Pollutants State and Locals Programs b. Identifiers/Open-Ended Terms NATICH - National Air Toxics Information Clearinghouse CHIPs - Chemical Hazard Information Profiles CAS - Chemical Abstracts Services Registry Number(s) c. COSATI Field/Group			
18. Availability Statement Release Unlimited		19. Security Class (This Report) Unclassified	21. No. of Pages 107
		20. Security Class (This Page) Unclassified	22. Price PCACG/MFA9

NATIONAL AIR TOXICS INFORMATION CLEARINGHOUSE



Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

STAPPA / ALAPCO

State and Territorial Air Pollution Program Administrators
Association of Local Air Pollution Control Officials

Ongoing Research and Regulatory Development Projects

June 1987

REPRODUCED BY
U.S. DEPARTMENT OF COMMERCE
NATIONAL TECHNICAL
INFORMATION SERVICE
SPRINGFIELD, VA. 22161

DCN No. 87-239-001-23-08
EPA Contract No. 68-02-4330
EPA 450/5-87-004

NATIONAL AIR TOXICS INFORMATION CLEARINGHOUSE:
ONGOING RESEARCH AND REGULATORY DEVELOPMENT PROJECTS

Prepared for:

Beth M. Hassett, Work Assignment Manager
Pollutant Assessment Branch
Strategies and Air Standards Division
Office of Air Quality Planning and Standards
U. S. Environmental Protection Agency
Research Triangle Park, North Carolina 27711

Prepared by:

Margaret L. Hanson
Caroline B. Brickley
Alice S. Pelland
Radian Corporation
3200 East Chapel Hill Road/Progress Center
Post Office Box 13000
Research Triangle Park, North Carolina 27709

June 1987

DISCLAIMER

This report has been reviewed by the Office of Air Quality Planning and Standards, U. S. Environmental Protection Agency, and approved for publication as received from the Radian Corporation. Approval does not signify that the contents necessarily reflect the views and policies of the U. S. Environmental Protection Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

PREFACE

In response to State and local agency requests for air toxics information, EPA has designed and is implementing the National Air Toxics Information Clearinghouse. This information dissemination center has been designed and is being implemented in close coordination with the State and Territorial Air Pollution Program Administrators (STAPPA) and the Association of Local Air Pollution Control Officials (ALAPCO).

The purpose of this document, published by the National Air Toxics Information Clearinghouse, is to inform State and local policy makers of current research and regulatory development projects underway at EPA and the National Institute for Occupational Safety and Health (NIOSH), and to help them identify sources of specific air toxics information. Every effort has been made to ensure accuracy as of April 1987, the date that compilation of information was completed. However, future changes in agency priorities and funding levels may change the scope and estimated project completion dates.

This document is an update of the third National Air Toxics Information Clearinghouse ongoing research document, which was published in June 1986. The Clearinghouse currently plans to update this document on a regular basis. Other documents published by the Clearinghouse include:

- National Air Toxics Information Clearinghouse: Rationale for Air Toxics Control in Seven State and Local Agencies, EPA-450/5-86-005, PB86-181179/AS, August 1985;
- National Air Toxics Information Clearinghouse: NATICH Data Base Users Guide for Data Viewing, EPA-450/5-85-008, PB86-123601/AS, September 1985;
- National Air Toxics Information Clearinghouse Report on State and Local Air Toxics Activities, Two Volumes, EPA-450/5-86-011, A, B, PB86-200466/REB, July 1986;
- National Air Toxics Information Clearinghouse: How The Clearinghouse Can Help to Answer Your Air Toxics Questions, EPA-450/5-86-009, July 1986;

- National Air Toxics Information Clearinghouse: Methods for Pollutant Selection and Prioritization, EPA-450/5-86-010, PB87-124079/REB, July 1986;
- National Air Toxics Information Clearinghouse: Qualitative and Quantitative Cancer Risk Assessment, EPA-450/5-87-003, June 1987;
- National Air Toxics Information Clearinghouse: Bibliography of Selected Reports and Federal Register Notices Related to Air Toxics, Volumes 1 and 2, EPA-450/5-87-005, July 1987; and
- National Air Toxics Information Clearinghouse Newsletter, A Periodical, 16 issues to date, December 1983 - June 1987.

ABSTRACT

The National Air Toxics Information Clearinghouse has been established by the EPA's Office of Air Quality Planning and Standards for the purpose of facilitating information transfer among Federal, State, and local air quality management agencies. This document has been published as part of that effort. The purpose is to inform State and local policy makers and other Clearinghouse users of EPA and NIOSH research and EPA regulatory development projects concerning noncriteria air pollutants.

The document is divided into two parts and an appendix. The first part lists 235 air toxics projects currently in progress at EPA and NIOSH. A brief description of each project and a contact name, office, and telephone number are given. The second part of the document contains the index that allows readers to locate projects of interest. Projects are indexed by agency, project type, chemical name, CAS number, and air pollution source type. The appendix lists regulatory development projects on toxic chemicals underway at the EPA's Office of Drinking Water (ODW). While most of these projects are not directly related to air problems, health information on toxic chemicals from ODW projects may be of interest to Clearinghouse users.

This work complements information contained in the Clearinghouse documents entitled "National Air Toxics Information Clearinghouse: Bibliography of Selected Reports and Federal Register Notices Related to Air Toxics, Volumes 1 and 2," July 1987 (EPA-450/5-87-005).

This document was submitted in partial fulfillment of EPA Contract No. 68-02-4330, Work Assignment No. 23, by Radian Corporation under the sponsorship of the U. S. Environmental Protection Agency. Compilation was completed in April 1987, and the report was completed in June 1987.

TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
	INTRODUCTION	1
Part 1	PROJECT SUMMARIES	15
Part 2	INDEX	41
	TABLE OF CONTENTS TO INDEX	43
	PROJECT ENTRY INDEX	53
Appendix	EPA OFFICE OF DRINKING WATER PROJECTS	97

INTRODUCTION

This list of ongoing research and regulatory development activities has been compiled by the National Air Toxics Information Clearinghouse as one of several tools designed to facilitate information exchange on air toxics. A total of 235 ongoing projects concerning noncriteria pollutants are listed. These projects have been funded by the U. S. Environmental Protection Agency (EPA) or the National Institute for Occupational Safety and Health (NIOSH). The EPA or NIOSH office and a contact name and telephone number are provided for each project. To facilitate use of this document, the projects are indexed by agency, project type, chemical name, Chemical Abstracts Services (CAS) registry number, air pollution source type, and Standard Industrial Classification (SIC) code.

This document is designed to help Clearinghouse users identify sources of information for specific air toxics questions or problems. It is an updated version of the June 1986 Clearinghouse "Ongoing Research and Regulatory Development Projects" document. The list of projects contained in this document focuses on studies which have not yet resulted in publicly available reports. The list indicates estimated completion dates as well as a contact person who can provide study details. In future updates of this document, new projects will be added, and the dates and names previously provided will be updated as required. Projects which have been completed since the last edition have been removed. Some of these projects resulted in published reports which are listed in the July 1987 Clearinghouse publication "Bibliography of Selected Reports and Federal Register Notices Related to Air Toxics."

DOCUMENT SCOPE

Sixteen types of projects which are considered to be of greatest interest to agencies concerned with the regulation of noncriteria air pollutants are included in this compilation. Both basic scientific research

and studies conducted to assess the need for regulations and/or to support regulations development have been included. Federal regulations may or may not be developed for sources and/or pollutants covered by these projects. The 16 categories of projects are briefly defined below.

1. Ambient Monitoring - Projects funded by EPA laboratories for development of monitoring methodologies for hazardous air pollutants or for conducting monitoring studies.
2. CHIPs - Chemical Hazard Information Profile - In these studies, EPA's Office of Toxic Substances (OTS) compiles preliminary information about sources, environmental distribution, exposure and health effects of specific chemicals.
3. Control Technology - Projects funded primarily by EPA laboratories and addressing control of air toxics from specific sources or mitigation of effects from toxic pollutants in a geographic area (i.e., effects of urban soup).
4. Emission Factor Documents - Primarily funded by the Monitoring and Data Analysis Division, Office of Air Quality Planning and Standards (OAQPS), these projects examine the sources and emissions of specific pollutants.
5. Epidemiology Studies - NIOSH-funded epidemiology studies on noncriteria air pollutants.
6. Exposure Assessments - EPA-funded projects to estimate the population exposed to ambient concentrations of specific chemicals.
7. Health Assessments - Projects funded by EPA's Office of Health and Environmental Assessment, Environmental Criteria and Assessment Office to compile information on health effects of specific chemicals.
8. Indoor Air - Projects conducted primarily by EPA laboratories and relating to toxic indoor air pollutants, including monitoring and health and exposure assessments of indoor air pollutants.

9. NESHAP - OAQPS projects to support the development of national emission standards for hazardous air pollutants (NESHAP) under Section 112 of the Clean Air Act. These projects may include collecting or generating the following types of information: an analysis of the affected industry or air pollution source including emissions data and applicable control technology; an analysis of regulatory alternatives in terms of potential environmental, economic, and energy impacts; and health information including exposure and risk assessments.
10. NSPS - OAQPS projects to support the development of new source performance standards (NSPS) for sources of certain hazardous air pollutants under Section 111(d) of the Clean Air Act. These projects may involve gathering or generating the following types of information: an analysis of the affected industry or air pollution source including emissions data and applicable control technology and an analysis of regulatory alternatives in terms of potential environmental, economic, and energy impacts.
11. Pre-Regulatory Assessments - Projects funded by the Pollutant Assessment Branch of OAQPS which include reviewing the health effects, sources, emissions to the ambient air, and potential for public exposure to specific pollutants in order to decide whether these pollutants should be regulated under the Clean Air Act.
12. Risk Assessments - Projects funded by EPA's Office of Health and Environmental Assessment and EPA research laboratories to estimate human risks from hazardous air pollutants.
13. Source Assessments - EPA projects to identify and quantify emissions from specific source categories and to evaluate applicable control technologies.
14. Source Sampling - Projects funded by EPA laboratories for development of source sampling methodologies or for sampling specific sources of hazardous air pollutants.

15. Toxicity Testing - Animal toxicity testing projects funded by EPA research laboratories and NIOSH.

The following EPA offices were contacted for lists of projects within these 12 categories:

- Office of Air Quality Planning and Standards,
- Office of Health and Environmental Assessment,
- Office of Pesticides and Toxic Substances,
- Office of Solid Waste and Emergency Response,
- Office of Research and Development, and
- Regional Offices for all 10 Regions.

The National Institute for Occupational Safety and Health (NIOSH) under the Department of Health and Human Services was also contacted. In selecting projects from these lists, emphasis was placed on projects dealing with noncriteria air pollutants which belong to the categories listed above. The Office of Drinking Water (ODW) projects have been listed in the Appendix. While not specifically air related, health information on toxic pollutants resulting from ODW projects may be helpful to Clearinghouse users.

USING THIS DOCUMENT

This document has been divided into two parts and an appendix. Part 1 contains individual entries for 235 ongoing research and regulatory development projects. Project entries are numbered sequentially throughout Part 1, beginning with the prefix CL-BIB. Breaks in numerical sequence indicate the removal of previous entries after completion of the specific project. Each entry generally contains the following elements:

- Project Title,
- Status of Project,
- Contact Office, Name, and Telephone Number,

- Chemical Abstract Services (CAS) Registry Number,
- Chemical Name,
- Air Pollution Source, and
- Project Type.

CAS number, chemical name, and source may not be applicable to all entries. For example, projects which deal with groups of chemicals such as "organic compounds" or "heavy metals" rather than specific pollutants cannot be assigned CAS numbers. Several special Clearinghouse acronyms prefaced with "CL- " have been assigned to groups of common pollutant types where no CAS number was applicable. The list of Clearinghouse chemical acronyms is shown in Table 1. In a few cases, the term "various" has been used where pollutants that are emitted are so numerous that even Clearinghouse numbers could not be assigned. In some projects dealing with specific source categories, lists of chemicals emitted are not yet available, so "various" has been used under Chemical Name. Other chemical-specific projects may not deal with specific air pollution sources. In these cases, the Air Pollution Source element of the entry has been omitted. Wherever possible, an effort has been made to list the specific chemical name(s), CAS registry number(s), and/or source type(s) for each project. Table 2 gives examples of typical entries.

If a project clearly falls into 1 of the 16 categories listed above, only that one project type is listed in the entry. While there is often overlap between the kinds of information included in these categories, the project type identified reflects the primary emphasis of the project. Where it was difficult to select the single most appropriate project type, more than one is listed.

The Status of Project element contains the date the project is expected to be completed or published. The month and year is given if available, otherwise the fiscal year of expected completion is provided. Since most NIOSH projects are long term projects, journal articles on various phases of a project may be published before the overall project completion date shown in the entry. In the case of emission standards projects (NESHAPs and NSPS), the entry indicates whether the standard is currently in the proposal or promulgation stage.

TABLE 1. CLEARINGHOUSE CHEMICAL IDENTIFIERS

Clearinghouse CAS #	Pollutant
CL-ABRAS	Abrasives
CL-ACID	Acidic compounds
CL-ADIP	Adipates
CL-ALDEHYD	Aldehydes
CL-AMINE	Amines
CL-BROM	Bromine compounds
CL-BTX	Benzene, toluene, xylene
CL-CARBON	Total carbon
CL-CARCIN	Carcinogens
CL-CFC	Chlorofluorocarbons
CL-CHC	Chlorinated hydrocarbons
CL-CHLOR	Chlorine compounds
CL-COE	Coke oven emissions
CL-CREOSOL	Creosols
CL-CUTFLU	Cutting fluids
CL-DGAEA	Diethylene glycol alkyl ethers and acetates
CL-DIESEL	Diesel fuel emissions
CL-DIISOCY	Diisocyanates
CL-DIOXIN	Dioxins
CL-ETS	Environmental tobacco smoke
CL-EXPLO	Explosives
CL-FUELOIL	Waste derived fuel oil emissions
CL-FURAN	Furans
CL-HALOME	Halomethanes
CL-HAZWAST	Hazardous wastes
CL-HCARB	Hydrocarbons
CL-IAP	Indoor air pollutants
CL-INORGAN	Inorganic compounds
CL-METAL	Metallic compounds
CL-MINDUST	Mineral dusts
CL-MINFIB	Mineral fibers
CL-MS	Mineral spirits
CL-NITRATE	Nitrates
CL-NITRITE	Nitrites
CL-NITROSO	Nitroso compounds
CL-NMHC	Non-methane hydrocarbons
CL-OH	Hydroxide
CL-ORGANIC	Organic compounds
CL-PAH	Polycyclic aromatic hydrocarbons
CL-PCO	Photochemical oxidants
CL-PEST	Pesticides
CL-PHENOL	Phenols
CL-PHOSPHA	Phosphates

TABLE 1. CLEARINGHOUSE CHEMICAL IDENTIFIERS (Continued)

Clearinghouse CAS #	Pollutant
CL-PHTH	Phthalates
CL-PLAS	Plasticizers
CL-PM	Particulate matter
CL-POM	Polycyclic organic matter
CL-RAD	Radiation
CL-RESIN	Resins
CL-SALTS	Salts
CL-SEWSLUD	Sewage sludge
CL-SOLVENT	Solvents
CL-SULFATE	Sulfates
CL-SULFIDE	Sulfides
CL-SULFITE	Sulfites
CL-SVOC	Semivolatile organic compounds
CL-TIN	Organic tin compounds
CL-TRS	Total reduced sulfur
CL-VEG	Vegetable oil mists
CL-VOC	Volatile organic compounds
CL-WELD	Welding fumes
CL-WOOD	Wood smoke

TABLE 2. SAMPLE ENTRIES

CL-BIB-0040

TITLE: Decision on Regulation of Formaldehyde Under the Clean
Air Act
STATUS: In Progress 1987
CONTACT: OAQPS/SASD/PAB, N. Pate, (919) 541-5347
CAS NO: 50-00-00
CHEMICAL: Formaldehyde
PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0193

TITLE: Occupational Lung Disease Associated with Exposure to
Diesel Emissions
STATUS: Started 10/81; Complete 9/87
CONTACT: NIOSH/DRDS/ENIB, M. McCawley, (304) 291-4304
CAS NO: CL-DIESEL
CHEMICAL: Diesel Exhaust
PROJECT TYPE: Epidemiology

The last element in each project entry lists the office doing the work and the name and telephone number of the Project Officer or other knowledgeable contact. Abbreviations used for the offices and the telephone number for each office are included in Table 3.

Part 2 of the document consists of the index. The index is organized alphabetically and each project is indexed by project type, CAS number, chemical name, source type, SIC code, and the agency conducting the work. These indices allow users to locate projects pertaining to a specific chemical, source, or type of information. For example, if information is desired on a specific chemical, it can be obtained by looking up the chemical name in the index or by looking up the CAS Number for that chemical. Numerical index terms are located after the alphabetic terms. Under the chemical name are a list of titles and project numbers (e.g., CL-BIB-0193). Using this project number, one can look up the projects of interest in Part 1 of this document. Similarly this process can be done for various source types. For example, if information on projects related to steel mining, or the chemical industry was desired, a listing could be found alphabetically in the index under each of these categories. If an entry contains more than one project type, it is listed in the index under each applicable project type. Only those chemical names, CAS numbers, and sources used in the 235 project descriptions are found in the index. A table of contents to the index is found at the beginning of Part 2. This lists all terms found in the index and the index page number where the term and associated projects are listed.

Regulatory development projects underway at the EPA Office of Drinking Water (ODW) are summarized in the Appendix. While these projects are not specifically air related, Clearinghouse users may find toxic chemical information generated by ODW useful. For example, background documents for setting Maximum Contaminant Levels under the Safe Drinking Water Act contain health information on toxic chemicals; and many chemicals being studied by ODW are also potential air pollutants. The Appendix contains a brief description of ODW regulatory development activities and lists of chemicals currently under study.

TABLE 3. KEY TO ABBREVIATIONS USED IN THIS DOCUMENT

Abbreviation			Name	Telephone
Office	Division	Branch		
1. Environmental Protection Agency (EPA) Offices				
OAQPS/			Office of Air Quality Planning and Standards, Research Triangle Park, NC	
	ESED/		Emission Standards and Engineering Division	(919) 541-5571
		SDB	Standards Development Branch	(919) 541-5578
		CPB	Chemicals and Petroleum Branch	(919) 541-5671
		ISB	Industrial Studies Branch	(919) 541-5671
	MDAD/		Monitoring and Data Analysis Division	(919) 541-5558
		AMTB	Air Management Technology Branch	(919) 541-5586
	RPO		Regional Programs Office	(919) 541-5555
	SASD/		Strategies and Air Standards Division	(919) 541-5504
		PAB	Pollutant Assessment Branch	(919) 541-5645
OERR/			Office of Emergency and Remedial Response, Washington, DC	(202) 382-2180
	HSC		Hazardous Site Control	(202) 382-4485
OHEA/			Office of Health and Environmental Assessment, Washington, DC	(202) 382-7317
	CAG		Carcinogen Assessment Group	(202) 382-5952
	ECAO-RTP		Environmental Criteria and Assessment Office, Research Triangle Park, NC	(919) 541-4173

TABLE 3. KEY TO ABBREVIATIONS USED IN THIS DOCUMENT (Continued)

Abbreviation			Name	Telephone
Office	Division	Branch		
	ECAO-Ci		Environmental Criteria and Assessment Office, Cincinnati, OH	(513) 684-7531
	EAG		Exposure Assessment Group	(202) 475-8922
	REAG		Reproductive Effects Assessment Group	(202) 382-7336
OTS/			Office of Toxic Substances, Washington, DC	
	A/		Assessment Division	(202) 382-3790
		CSB	Chemical Screening Branch	(202) 382-3507
		RAB	Risk Analysis Branch	(202) 382-3436
ORP/			Office of Radiation Programs, Washington, DC	(202) 475-9626
	CSD/		Criteria and Standards Division	(202) 475-9600
		ESB	Environmental Standards Branch	(202) 475-9610
ORD/			Office of Research and Development, Washington, DC	
	OHR		Office of Health Research	(202) 382-5900
	EMSL-RTP		Environmental Monitoring and Support Laboratory, Research Triangle Park, NC	(919) 541-2106
	ASRL-RTP		Atmospheric Sciences Research Laboratory, Research Triangle Park, NC	(919) 541-2191
	HERL-RTP		Health Effects Research Laboratory, Research Triangle Park, NC	(919) 541-2281

TABLE 3. KEY TO ABBREVIATIONS USED IN THIS DOCUMENT (Continued)

Abbreviation			Name	Telephone
Office	Division	Branch		
	AEERL-RTP		Air and Energy Engineering Research Laboratory, Research Triangle Park, NC	(919) 541-2821
	HWERL-Ci		Hazardous Waste Engineering Research Laboratory, Cincinnati, OH	(513) 569-7519
	HWERL-Edi		Hazardous Waste Engineering Research Laboratory, Edison, NJ	(201) 321-6635
	Kerr Lab		EPA/Kerr Laboratory, Ada, OK	(405) 332-8800
OPP/ RD/	Special Review		Office of Pesticide Programs, Registration Division	(202) 557-7760
Reg/			Regional Offices	
	Reg. I		Region I, Air Management Division, Boston, MA	(617) 565-3232
	Reg. II		Region II, Air and Waste Management Division, New York, NY	(212) 264-2517
	Reg. III		Region III, Air Management Division, Philadelphia, PA	(215) 597-9800
	Reg. IV		Region IV, Air Management Division, Atlanta, GA	(404) 347-2864
	Reg. V		Region V, Air Management Division, Chicago, IL	(312) 353-6009
	Reg. VI		Region VI, Air and Waste Management Division, Dallas, TX	(214) 655-7208
	Reg. VII		Region VII, Air and Toxics Division, Kansas City, KS	(913) 236-2893
	Reg. VIII		Region VIII, Air and Toxics Division, Denver, CO	(303) 293-1761

TABLE 3. KEY TO ABBREVIATIONS USED IN THIS DOCUMENT (Continued)

Abbreviation			Name	Telephone
Office	Division	Branch		
	Reg. IX		Region IX, Air Management Division, San Francisco, CA	(415) 974-7109
	Reg. X		Region X, Air and Toxics Division, Seattle, WA	(206) 442-1757
2. National Institute for Occupational Safety and Health (NIOSH) Offices				
	DBBS/		Division of Biomedical and Behavioral Sciences, Cincinnati, OH	(513) 533-8465
		ABPB	Applied Biology and Physics	(513) 533-8383
		APEB	Applied Physiology and Ergonomics Branch	(513) 533-8383
		ETB	Experimental Toxicology Branch	(513) 533-8392
		TSB	Technical Support Branch	(513) 533-8433
	DRDS/		Division of Respiratory Disease Studies, Morgantown, WV	(304) 291-4474
		LIB	Laboratory Investigations Branch	(304) 291-4281
		CIB	Clinical Investigations Branch	(304) 291-4223
		ENIB	Environmental Investigations Branch	(304) 291-4304
		EPIB	Epidemiology Investigations Branch	(304) 291-4476
	DSHEFS/		Division of Surveillance, Hazard Evaluations, and Field Studies, Cincinnati, OH	(513) 841-8235
		IWSB	Industry Wide Studies Branch	(513) 841-4203
		SB	Surveillance Branch	(513) 841-4303

Information in this report is also available through the National Air Toxics Information Clearinghouse computerized data base known as NATICH. By accessing the data base on-line, the user may identify ongoing project citations by a combination of factors such as pollutant name or CAS number, SIC code, project type, and/or sponsoring agency (EPA or NIOSH). For more information on accessing NATICH, contact the Clearinghouse staff at (919) 541-5346 or (FTS) 629-5346.

PART 1 - PROJECT SUMMARIES

CL-B1B-0010
TITLE: Cadmium NESHAP
STATUS: Proposal FY 88
CONTACT: OAQPS/ESED/ISB, J. Crowder
CAS NO: 7440-43-9
CHEMICAL: CADMIUM
PROJECT TYPE: NESHAP

CL-B1B-0012
TITLE: Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP
STATUS: Proposal FY 87
CONTACT: OAQPS/ESED/SDB, R. Ajax
CAS NO: CL-COE
CHEMICAL: COKE OVEN EMISSIONS
SOURCE: Coke Ovens, Wet-Coal Charged
PROJECT TYPE: NESHAP

CL-B1B-0014
TITLE: Organic Solvent Cleaning NESHAP
STATUS: Proposed
CONTACT: OAQPS/ESED/SDB, D. Beck
CAS NO: CL-VOC; 127-18-6; 79-01-6; 71-55-6; 75-09-2; 76-13-1
CHEMICAL: VOC; PERCHLOROETHYLENE; TRICHLOROETHYLENE; 1,1,1-TRICHLOROETHANE; METHYLENE CHLORIDE; TRICHLOROFLUOROETHANE
SOURCE: Degreasing Operations; Organic Solvent Cleaners
PROJECT TYPE: NESHAP

CL-B1B-0018
TITLE: Asbestos NESHAP Revision
STATUS: Proposal FY 87
CONTACT: OAQPS/ESED/SDB, J. Meyer
CAS NO: 1332-21-4
CHEMICAL: ASBESTOS
SOURCE: Construction Industry; Demolition
PROJECT TYPE: NESHAP

CL-B1B-0020
TITLE: Chromium NESHAP
STATUS: Proposal FY 87
CONTACT: OAQPS/ESED/SDB, J. Crowder
CAS NO: 7440-47-3
CHEMICAL: CHROMIUM
PROJECT TYPE: NESHAP

CL-B1B-0023
TITLE: Locating and Estimating Air Emissions From Sources of Polychlorinated Biphenyls (PCB)
STATUS: Publish FY 87
CONTACT: OAQPS/MOAO/AMTB, T. Lahre
CAS NO: 1336-36-3; CL-PCB
CHEMICAL: POLYCHLORINATED BIPHENYLS (PCB)
PROJECT TYPE: Emission Factor; Source Assessment

CL-B1B-0027
TITLE: EPA-State Pilot Project For the Control of Acrylonitrile Emissions
STATUS: In Progress FY 87
CONTACT: OAQPS/RPO, F. Renner
CAS NO: 107-13-1
CHEMICAL: ACRYLONITRILE
PROJECT TYPE: Source Assessment; Risk Assessment

CL-B1B-0028
TITLE: Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments
STATUS: In Progress FY 87
CONTACT: OAQPS/SASD/PAB, D. Cleverly
CAS NO: 71-43-2
CHEMICAL: BENZENE; GASOLINE VAPORS
SOURCE: Gasoline Marketing
PROJECT TYPE: Exposure Assessment

CL-B1B-0029
TITLE: Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion
STATUS: In Progress FY 87
CONTACT: OAQPS/SASD/PAB, W. Peters
CAS NO: 7440-38-2; 7440-41-7; 7440-43-9; 7440-47-3; 7440-02-0;
CL-METAL
CHEMICAL: ARSENIC; BERYLLIUM; CADMIUM; CHROMIUM; NICKEL; METALLIC COMPOUNDS
SOURCE: Combustion
PROJECT TYPE: Exposure Assessment

CL-B1B-0030
TITLE: Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities
STATUS: In Progress 1987
CONTACT: OAQPS/SASD/PAB, M. Dusetzina
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTES
SOURCE: Hazardous Waste Facilities
PROJECT TYPE: Exposure Assessment; Risk Assessment

CL-BIB-0034	Decision on Regulation of Acetaldehyde Under The Clean Air Act	CL-BIB-0041	Decision on Regulation of Gasoline Vapors Under the Clean Air Act
TITLE:		TITLE:	
STATUS:	In Progress 1987	STATUS:	In Progress 1987
CONTACT:	QAQPS/SASD/PAB, S. Voorhees	CONTACT:	QAQPS/SASD/PAB, D. Cleverly
CAS NO:	75-07-0	CAS NO:	VARIOUS
CHEMICAL:	ACETALDEHYDE	CHEMICAL:	GASOLINE VAPORS
PROJECT TYPE:	Pre-Regulatory Assessment	PROJECT TYPE:	Pre-Regulatory Assessment
CL-BIB-0035	Decision on Regulation of Acrolein Under the Clean Air Act	CL-BIB-0042	Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act
TITLE:		TITLE:	
STATUS:	In Progress 1987	STATUS:	In Progress 1987
CONTACT:	QAQPS/SASD/PAB, B. Riddle	CONTACT:	QAQPS/SASD/PAB, S. Voorhees
CAS NO:	107-02-8	CAS NO:	7783-06-4
CHEMICAL:	ACROLEIN	CHEMICAL:	HYDROGEN SULFIDE
PROJECT TYPE:	Pre-Regulatory Assessment	PROJECT TYPE:	Pre-Regulatory Assessment
CL-BIB-0036	Decision on Regulation of Ammonia Under the Clean Air Act	CL-BIB-0043	Decision on Regulation of Mineral Fibers Under the Clean Air Act
TITLE:		TITLE:	
STATUS:	In Progress 1987	STATUS:	In Progress 1987
CONTACT:	QAQPS/SASD/PAB, M. Dusetzina	CONTACT:	QAQPS/SASD/PAB, B. Riddle
CAS NO:	7664-41-7	CAS NO:	VARIOUS
CHEMICAL:	AMMONIA	CHEMICAL:	MINERAL FIBERS
PROJECT TYPE:	Pre-Regulatory Assessment	PROJECT TYPE:	Pre-Regulatory Assessment
CL-BIB-0037	Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act	CL-BIB-0044	Decision on Regulation of Naphthalene Under the Clean Air Act
TITLE:		TITLE:	
STATUS:	In Progress 1987	STATUS:	In Progress 1987
CONTACT:	QAQPS/SASD/PAB, T. Mohin	CONTACT:	QAQPS/SASD/PAB, F. Hauchman
CAS NO:	7782-50-5; 7647-01-0	CAS NO:	91-20-3
CHEMICAL:	CHLORINE; HYDROCHLORIC ACID	CHEMICAL:	NAPHTHALENE
PROJECT TYPE:	Pre-Regulatory Assessment	PROJECT TYPE:	Pre-Regulatory Assessment
CL-BIB-0040	Decision on Regulation of Formaldehyde Under the Clean Air Act	CL-BIB-0046	Decision on Regulation of Phosgene Under the Clean Air Act
TITLE:		TITLE:	
STATUS:	In Progress 1987	STATUS:	In Progress 1987
CONTACT:	QAQPS/SASD/PAB, N. Pate	CONTACT:	QAQPS/SASD/PAB, J. Vandenberg
CAS NO:	50-00-0	CAS NO:	75-44-5
CHEMICAL:	FORMALDEHYDE	CHEMICAL:	PHOSGENE
PROJECT TYPE:	Pre-Regulatory Assessment	PROJECT TYPE:	Pre-Regulatory Assessment

<u>CL-BIB-0048</u>	<u>TITLE:</u> Decision on Regulation of Propylene Oxide and Propylene Under the Clean Air Act In Progress 1987 OAGPS/SASD/PAB, M. Pate 75-56-9 PROPYLENE OXIDE; PROPYLENE Pre-Regulatory Assessment	<u>TITLE:</u> Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act In Progress 1987 OAGPS/SASD/PAB, J. Vandenberg 1314-13-2; 7440-66-6 ZINC; ZINC OXIDE Pre-Regulatory Assessment
<u>CL-BIB-0049</u>	<u>TITLE:</u> Decision on Regulation of Styrene Under the Clean Air Act In Progress 1987 OAGPS/SASD/PAB, I. Cote 100-42-5 STYRENE Pre-Regulatory Assessment	<u>CL-BIB-0054</u> <u>TITLE:</u> List of Superfund Hazardous Waste Sites with Air Contamination Problems In Progress FY 87 OERR/HSC, S. Caldwell CL-HAZUAST HAZARDOUS WASTES Hazardous Waste Facilities Source Assessment
<u>CL-BIB-0050</u>	<u>TITLE:</u> Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act In Progress 1987 OAGPS/SASD/PAB, B. Hassett 584-84-9 TOLUENE DIISOCYANATE Pre-Regulatory Assessment	<u>CL-BIB-0055</u> <u>TITLE:</u> Potential for Air Releases From CERCLA Sites Started 7/85; Complete 6/87 OERR/HSC, S. Caldwell CL-HAZUAST HAZARDOUS WASTES Hazardous Waste Facilities Source Assessment
<u>CL-BIB-0051</u>	<u>TITLE:</u> Decision on Regulation of Methyl Isocyanate Under the Clean Air Act In Progress 1987 OAGPS/SASD/PAB, B. Hassett 624-83-9 METHYL ISOCYANATE Pre-Regulatory Assessment	<u>CL-BIB-0057</u> <u>TITLE:</u> Health Assessment Document for Beryllium, External Review Publish Final Version FY 87 OHEA/ECAO-RTP, D. Sivulka 7440-41-7 BERYLLIUM Health Assessment
<u>CL-BIB-0052</u>	<u>TITLE:</u> Decision on Regulation of Xylene Under the Clean Air Act In Progress 1987 OAGPS/SASD/PAB, F. Hauchman 1330-20-7 XYLENE Pre-Regulatory Assessment	<u>CL-BIB-0059</u> <u>TITLE:</u> Health Assessment Document for Acrolein Publish Final FY 88 OHEA/ECAO-RTP, V. Ewald 107-02-8 ACROLEIN Health Assessment

CL-B1B-0061
TITLE: Health Assessment Document for Acetaldehyde, External Review
STATUS: Publish Final Version FY 88
CONTACT: OHEA/ECAO-RTP, W. Ewald
CAS NO: 75-07-0
CHEMICAL: ACETALDEHYDE
PROJECT TYPE: Health Assessment
 (919) 541-4164

CL-B1B-0062
TITLE: Health Assessment Document for Hydrogen Sulfide, External Review
STATUS: Publish Final Version FY 87
CONTACT: OHEA/ECAO-RTP, H. Ammann
CAS NO: 7783-06-4
CHEMICAL: HYDROGEN SULFIDE
PROJECT TYPE: Health Assessment
 (919) 541-4930

CL-B1B-0063
TITLE: Health Assessment Document for Phosgene, External Review
STATUS: Publish Final Version FY 87
CONTACT: OHEA/ECAO-RTP, D. Campbell
CAS NO: 75-44-5
CHEMICAL: PHOSGENE
PROJECT TYPE: Health Assessment
 (919) 541-4477

CL-B1B-0064
TITLE: Health Assessment Document for Dibenzofurans
STATUS: In Progress FY 87
CONTACT: OHEA/ECAO-CI, D. Mukerjee
CAS NO: 132-64-9
CHEMICAL: DIBENZOFURANS
PROJECT TYPE: Health Assessment
 (513) 569-7572

CL-B1B-0069
TITLE: Evaluation of Methods to Estimate Absorbed Doses of Inhaled Oxidants
STATUS: Started FY 84; Complete 12/86
CONTACT: OHEA/EAG, R. Valentowicz
CAS NO: VARIOUS
CHEMICAL: VARIOUS OXIDANTS
PROJECT TYPE: Exposure Assessment
 (202) 475-8922

CL-B1B-0075
TITLE: Risk Analysis of Existing Data on Triethyl Phosphate
STATUS: Ongoing FY 87
CONTACT: OTS/A/RAB, F. Kover
CAS NO: 78-40-0
CHEMICAL: TRIETHYL PHOSPHATE
PROJECT TYPE: Risk Assessment
 (202) 382-3436

CL-B1B-0076
TITLE: Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters
STATUS: Ongoing FY 87
CONTACT: OTS/A/RAB, F. Kover
CAS NO: 117-82-8; CL-PNTH
CHEMICAL: DIMETHOXYETHYL PHTHALATE
PROJECT TYPE: Risk Assessment
 (202) 382-3436

CL-B1B-0077
TITLE: Information Gathering and Risk Analysis of Existing Data on Phenylethanol
STATUS: Ongoing FY 87
CONTACT: OTS/A/RAB, F. Kover
CAS NO: 60-12-8
CHEMICAL: PHENYLETHANOL
PROJECT TYPE: Risk Assessment
 (202) 382-3436

CL-B1B-0078
TITLE: Information Gathering and Risk Analysis of Existing Data on Phenylethanol Acetate
STATUS: Ongoing FY 87
CONTACT: OTS/A/RAB, F. Kover
CAS NO: 103-45-7
CHEMICAL: PHENYLETHANOL ACETATE
PROJECT TYPE: Risk Assessment
 (202) 382-3436

CL-B1B-0079
TITLE: Risk Analysis of Existing Data on Phthalimide
STATUS: Ongoing FY 87
CONTACT: OTS/A/RAB, F. Kover
CAS NO: 85-41-6
CHEMICAL: PHTHALIMIDE
PROJECT TYPE: Risk Assessment
 (202) 382-3436

CL-B1B-0081
TITLE: Develop Sampling Methods for Speciated Nickel
STATUS: Complete FY 87
CONTACT: ENSL-RTP, F. Butler
CAS NO: 7440-02-0; VARIOUS
CHEMICAL: NICKEL
PROJECT TYPE: Source Sampling
 (919) 541-7863

<u>CL-BIB-0082</u>	TITLE: Validate an Emission Test Method for Dioxins STATUS: Complete 6/87 CONTACT: ENSL-RTP, M. Midgett CAS NO: 1746-01-6; CL-DIOXIN CHEMICAL: DIOXINS PROJECT TYPE: Source Sampling	(919) 541-2196
<u>CL-BIB-0084</u>	TITLE: Source Test Methods for Ammonia and Chlorine STATUS: Publish 9/87 CONTACT: ENSL-RTP, M. Midgett CAS NO: 7664-41-7; 7782-50-5 CHEMICAL: AMMONIA; CHLORINE PROJECT TYPE: Source Sampling	(919) 541-2196
<u>CL-BIB-0087</u>	TITLE: Report on Development of New Sampling and Analysis Techniques for Ambient Hazardous Air Pollutants (HAP) STATUS: Publish 12/87 CONTACT: ENSL-RTP, R. Lewis CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Source Sampling	(919) 541-3065
<u>CL-BIB-0096</u>	TITLE: Model of Human Exposures Inside Vehicles on Highways STATUS: Complete 12/87 CONTACT: ENSL-RTP, D. Hage CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Exposure Assessment	(919) 541-3184
<u>CL-BIB-0097</u>	TITLE: Report on Advances in Analytical Methods for Identification and Quantitation of Organic Compounds in Air STATUS: Ongoing 1987 CONTACT: ENSL-RTP, M. Wilson CAS NO: CL-ORGANIC CHEMICAL: ORGANICS PROJECT TYPE: Ambient Monitoring	(919) 541-4723
<u>CL-BIB-0101</u>	TITLE: Final Report of the Pesticide Total Exposure Study STATUS: Publish 9/87 CONTACT: ENSL-RTP, A. Bond CAS NO: CL-PEST CHEMICAL: PESTICIDES PROJECT TYPE: Exposure Assessment	(919) 541-4329
<u>CL-BIB-0102</u>	TITLE: Application of Total Exposure Assessment Methodology to the Study of Public Exposure to Pesticides in an Urban Area STATUS: Complete 11/88 CONTACT: ENSL-RTP, G. Akland CAS NO: CL-PEST CHEMICAL: PESTICIDES PROJECT TYPE: Exposure Assessment	(919) 541-2346
<u>CL-BIB-0103</u>	TITLE: Atmospheric Measurements of Trace Hazardous Organic Chemicals STATUS: Report Available 6/87 CONTACT: ASRL-RTP, L. Cupitt CAS NO: CL-ORGANIC CHEMICAL: ORGANIC COMPOUNDS PROJECT TYPE: Ambient Monitoring	(919) 541-2878
<u>CL-BIB-0104</u>	TITLE: Hazardous Air Pollutants in the Urban Environment STATUS: Ongoing 1987 CONTACT: ASRL-RTP, L. Cupitt CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Source Sampling, Ambient Monitoring, Source Assessment	(919) 541-2878
<u>CL-BIB-0105</u>	TITLE: Ambient Air/Source Transport and Transformation Relationships for Selected Hazardous Air Pollutants STATUS: Complete FY 87 CONTACT: ASRL-RTP, M. Lonneman CAS NO: VARIOUS CHEMICAL: VARIOUS PROJECT TYPE: Source Sampling	(919) 541-2829
<u>CL-BIB-0106</u>	TITLE: Update of a Data Base on VOC in the Atmosphere STATUS: Ongoing FY 87 CONTACT: ASRL-RTP, L. Cupitt CAS NO: CL-VOC CHEMICAL: VOLATILE ORGANIC COMPOUNDS (VOC) PROJECT TYPE: Source Sampling, Ambient Monitoring	(919) 541-2878

CL-BIB-0107
TITLE: Harvard University Cooperative Agreement - Monographs On Research and Policy Issues Including Sensitive Individuals, Biological Screening Tests, Air Carcinogen Policy, and Regulation of Toxic and Nuclear Waste
STATUS: Started 6/80; Complete 10/90
CONTACT: ORD/OHR, H. McKinnon
CAS NO: (202) 382-5900
CHEMICAL: HAZARDOUS AIR POLLUTANTS
PROJECT TYPE: Risk Assessment

CL-BIB-0108
TITLE: Determine Pulmonary Dose-Response Relationships
STATUS: Started 10/81; Complete 9/92
CONTACT: HERL-RTP, E. Grose
CAS NO: (919) 541-2966
CHEMICAL: HAZARDOUS AIR POLLUTANTS (PRIORITY)
PROJECT TYPE: Toxicity Testing

CL-BIB-0109
TITLE: Determine Neurotoxic Dose-Response Relationships
STATUS: Started 10/81; Complete 6/87
CONTACT: HERL-RTP, P. Bushnell
CAS NO: (919) 541-7747
CHEMICAL: HAZARDOUS AIR POLLUTANTS (PRIORITY)
PROJECT TYPE: Toxicity Testing

CL-BIB-0110
TITLE: Characterize Genotoxic Dose-Response Relationships
STATUS: Started 10/79; Complete 10/88
CONTACT: HERL-RTP, J. Lewtas
CAS NO: (919) 541-3849
CHEMICAL: HAZARDOUS AIR POLLUTANTS (PRIORITY)
PROJECT TYPE: Toxicity Testing

CL-BIB-0111
TITLE: Identify and Evaluate Toxic Components of Air Pollution
STATUS: Started 10/81; Complete 10/89
CONTACT: HERL-RTP; J. Lewtas
CAS NO: (919) 541-3849
CHEMICAL: HAZARDOUS AIR POLLUTANTS
PROJECT TYPE: Toxicity Testing, Ambient Monitoring

CL-BIB-0112
TITLE: Determine the Significance of Neurotoxic Response Indicators
STATUS: Started 10/81; Complete 10/88
CONTACT: HERL-RTP, W. Boyes
CAS NO: (919) 541-7538
CHEMICAL: HAZARDOUS AIR POLLUTANTS
PROJECT TYPE: Toxicity Testing

CL-BIB-0113
TITLE: Evaluate the Contribution of Source Emissions to Cancer Risk
STATUS: Started 10/83; Complete 10/88
CONTACT: HERL-RTP, J. Lewtas
CAS NO: (919) 541-3849
CHEMICAL: ORGANIC COMPOUNDS
SOURCE: Residential Buildings; Combustion; Coke Ovens
PROJECT TYPE: Source Assessment; Risk Assessment; Toxicity Testing

CL-BIB-0114
TITLE: Develop Methods to Identify Reproductive Toxicity of Air Pollutants
STATUS: Started 10/84; Complete 9/90
CONTACT: HERL-RTP, J. Laskey
CAS NO: (919) 541-2782
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicity Testing

CL-BIB-0115
TITLE: Integrated Air Cancer Project
STATUS: Started 10/84; Complete 10/90
CONTACT: HERL-RTP, J. Lewtas
CAS NO: (919) 541-3849
CHEMICAL: CL-CARCIN
SOURCE: VARIOUS
PROJECT TYPE: Combustion Exposure Assessment

CL-BIB-0116
TITLE: Destruction of VOC/NAP Emissions via Catalytic Incineration
STATUS: Started 6/85; Complete 6/88
CONTACT: AEERL-RTP, W. Kosusko
CAS NO: (919) 541-2991
CHEMICAL: CL-VOC
PROJECT TYPE: HAZARDOUS AIR POLLUTANTS; VOC Emission Factor

CL-BIB-0120 TITLE: Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment STATUS: Started 3/83; Ongoing-Awaiting Final Report CONTACT: AEERL-RTP, J. Ruppertsberger CAS NO: (919) 541-2734 CHEMICAL: VARIOUS DYES: SOURCE: Textile Industry PROJECT TYPE: Source Assessment	CL-BIB-0139 TITLE: Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility STATUS: Publish 5/87 CONTACT: HWERL-CI, B. Blaney CAS NO: (513) 569-7519 CHEMICAL: CL-HAZWAST SOURCE: HAZARDOUS WASTES PROJECT TYPE: Hazardous Waste Facilities Source Assessment
CL-BIB-0128 TITLE: Integrated Air Cancer Project: Wood Stove Operating Profiles STATUS: Started 11/85; Complete 9/87 CONTACT: AEERL-RTP, R. McCrillis CAS NO: (919) 541-2733 CHEMICAL: CL-WOOD SOURCE: VARIOUS; WOOD SMOKE PROJECT TYPE: Combustion Source Assessment	CL-BIB-0140 TITLE: Field Assessment of Steam VOC Removal Efficiencies STATUS: Unpublished Site Test Report; Ongoing CONTACT: HWERL-CI, B. Blaney CAS NO: (513) 569-7519 CHEMICAL: CL-HAZWAST; CL-VOC SOURCE: HAZARDOUS WASTES; VOLATILE ORGANIC COMPOUNDS PROJECT TYPE: Hazardous Waste Facilities Source Assessment
CL-BIB-0129 TITLE: Demonstration of Low-Cost Reduction of Indoor Radon From Soil STATUS: Started 9/84; Complete 9/87 CONTACT: AEERL-RTP, B. Henschel CAS NO: (919) 541-4112 CHEMICAL: CL-IAP, 10043-92-2 SOURCE: INDOOR AIR POLLUTANTS, RADON PROJECT TYPE: Source Assessment	CL-BIB-0141 TITLE: Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities STATUS: Unpublished Site Test Reports; Ongoing CONTACT: HWERL-CI, B. Westfall CAS NO: (513) 569-7519 CHEMICAL: CL-HAZWAST SOURCE: HAZARDOUS WASTES PROJECT TYPE: Hazardous Waste Facilities Source Assessment
CL-BIB-0132 TITLE: CO2 Laser Photoacoustic Toxic Vapor Monitoring STATUS: Started 9/85; Complete 5/87 CONTACT: AEERL-RTP, W. Jackson CAS NO: (919) 541-2559 CHEMICAL: VARIOUS SOURCE: VARIOUS PROJECT TYPE: Ambient Monitoring	CL-BIB-0142 TITLE: Field Assessment of Fate of Organics in Aerated Treatment Systems STATUS: Unpublished Site Test Reports; Ongoing CONTACT: HWERL-CI, B. Blaney CAS NO: (513) 569-7519 CHEMICAL: CL-HAZWAST; CL-ORGANIC SOURCE: HAZARDOUS WASTES; ORGANIC COMPOUNDS PROJECT TYPE: Hazardous Waste Facilities Source Assessment
CL-BIB-0137 TITLE: Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System STATUS: Publish 5/87 CONTACT: HWERL-CI, B. Blaney CAS NO: (513) 569-7519 CHEMICAL: CL-HAZWAST SOURCE: HAZARDOUS WASTES PROJECT TYPE: Hazardous Waste Facilities Source Assessment	CL-BIB-0143 TITLE: Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water STATUS: Publish Draft 6/87 CONTACT: HWERL-EDI, M. Royer CAS NO: (201) 321-6633 CHEMICAL: VARIOUS, CL-VOC, CL-HAZWAST SOURCE: VARIOUS, HAZARDOUS WASTE PROJECT TYPE: Hazardous Spills Source Assessment

CL-BIB-0145
TITLE: Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants
STATUS: In Progress FY 87
CONTACT: EPA Region I, T. D'Avanzo
CAS NO: (617) 565-3232
CHEMICAL: VARIOUS
SOURCE: Sewage Treatment Plants
PROJECT TYPE: Source Assessment

CL-BIB-0146
TITLE: New York State Stack Sampling of Resource Recovery Plants
STATUS: Started 1984; Complete FY 87
CONTACT: EPA Region II, R. Kelly
CAS NO: CL-DIOXIN; CL-METAL; 1336-36-3
CHEMICAL: DIOXINS; HEAVY METALS; POLYCHLORINATED BIPHENYLS
SOURCE: Resource Recovery Plants
PROJECT TYPE: Source Assessment, Source Sampling

CL-BIB-0147
TITLE: Analysis of Acid Precipitation Samples Collected in West Virginia, Delaware, and Maryland
STATUS: Ongoing FY 87
CONTACT: EPA Region III, T. Erdman
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Source Sampling

CL-BIB-0148
TITLE: Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes
STATUS: To Be Completed FY 87
CONTACT: EPA Region IV, M. Russell
CAS NO: 7440-47-3
CHEMICAL: CHROMIUM
SOURCE: Chemical Industry, Ferrochromium Alloy Production
PROJECT TYPE: Source Assessment

CL-BIB-0151
TITLE: Gulf Coast Community Exposure Study
STATUS: To Be Completed FY 87
CONTACT: EPA Region VI, J. Lyons
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Exposure Assessment

CL-BIB-0152
TITLE: 2-Phase Project to Identify Metro Area Point Sources and Develop an Emissions Inventory
STATUS: In Progress FY 87
CONTACT: EPA Region VII, B. Chanalor
CAS NO: (913) 236-2893
CHEMICAL: VARIOUS
PROJECT TYPE: Source Assessment; Exposure Assessment

CL-BIB-0153
TITLE: Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers
STATUS: Start 1/86; Ongoing FY 87
CONTACT: EPA Region IX, M. Stenborg
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
SOURCE: Sterilizers; Fumigation Chambers
PROJECT TYPE: Source Assessment; Emission Factor

CL-BIB-0155
TITLE: South Coast Exposure Study
STATUS: Complete FY 87
CONTACT: EPA Region IX, M. Stenborg
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Exposure Assessment

CL-BIB-0156
TITLE: Source Assessment Manual - Development of Ambient Guidelines for Non-Cancer Effects
STATUS: In Progress FY 87
CONTACT: EPA Region IX, M. Stenborg
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Source Assessment

CL-BIB-0157
TITLE: Contra Costa Exposure Study
STATUS: In Progress FY 87
CONTACT: EPA Region IX, M. Stenborg
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Exposure Assessment

CL-BIB-0159
 TITLE: Pesticide Impact Study from Field and Slash Burning
 STATUS: Started 1986; Ongoing FY 87
 CONTACT: EPA Region X, L. McPhillips (206) 442-1757
 CAS NO: CL-PEST; CL-PM; CL-POM
 CHEMICAL: PESTICIDES, PARTICULATE MATTER; POLYCYCLIC ORGANIC MATTER
 SOURCE: Agricultural; Forestry
 PROJECT TYPE: Source Assessment

CL-BIB-0161
 TITLE: Particulate and Tissue Analysis Service and Research
 STATUS: Started 10/82; Continuing
 CONTACT: NIOSH/DBBS/ABPB, F. Platek (513) 533-8400
 CAS NO: VARIOUS
 CHEMICAL: VARIOUS
 PROJECT TYPE: Toxicity Testing

CL-BIB-0162
 TITLE: Evaluation of Mesothelioma Production by Asbestos Substitutes
 STATUS: Started 10/84; Complete 6/90
 CONTACT: NIOSH/DBBS/ABPB, F. Platek (513) 533-8400
 CAS NO: 1332-21-4; VARIOUS
 CHEMICAL: ASBESTOS; ASBESTOS SUBSTITUTES
 PROJECT TYPE: Toxicity Testing

CL-BIB-0163
 TITLE: Biomonitoring of Exposure to Coal Tar
 STATUS: Started 10/83; Complete 9/87
 CONTACT: NIOSH/DBBS/ABPB, B. Tolos (513) 533-8383
 CAS NO: 129-00-0; VARIOUS
 CHEMICAL: PYRENE; COAL TAR
 PROJECT TYPE: Health Assessment

CL-BIB-0164
 TITLE: Development and Evaluation of Biomonitoring Methods for Methyl Ethyl Ketone
 STATUS: Started 9/85; Complete 9/87
 CONTACT: NIOSH/DBBS/ABPB, F. Phipps (513) 533-8383
 CAS NO: 78-93-3
 CHEMICAL: METHYL ETHYL KETONE
 PROJECT TYPE: Health Assessment

CL-BIB-0165
 TITLE: Behavioral Teratology of Alcohol Solvents
 STATUS: Started 10/82; Complete 12/87 (513) 533-8383
 CONTACT: NIOSH/DBBS/APEB, K. Anger
 CAS NO: CL-SOLVENT
 CHEMICAL: ALCOHOL SOLVENTS; SOLVENTS
 PROJECT TYPE: Toxicity Testing

CL-BIB-0166
 TITLE: Neurotoxicity of Aliphatic Carbon Solvents
 STATUS: Started 10/83; Complete 1/88 (513) 533-8383
 CONTACT: NIOSH/DBBS/APEB, J. Russo
 CAS NO: CL-SOLVENT
 CHEMICAL: SOLVENTS
 PROJECT TYPE: Toxicity Testing

CL-BIB-0167
 TITLE: Neurobehavioral Effects from Single/Mixed Spray Paint Agents
 STATUS: Started 10/79; Complete 1/88 (513) 533-8383
 CONTACT: NIOSH/DBBS/APEB, R. Dick
 CAS NO: VARIOUS
 CHEMICAL: PAINTS; KETONES
 PROJECT TYPE: Toxicity Testing

CL-BIB-0168
 TITLE: Neurotoxicity from Exposure to Heavy Metals
 STATUS: Started 10/84; Complete 9/88 (513) 533-8383
 CONTACT: NIOSH/DBBS/APEB, K. Anger
 CAS NO: 7440-43-9; CL-METAL
 CHEMICAL: CADMIUM; HEAVY METALS
 PROJECT TYPE: Toxicity Testing

CL-BIB-0169
 TITLE: Methodologies for Worksite Neurotoxicity
 STATUS: Started 10/84; Complete 9/88 (513) 533-8383
 CONTACT: NIOSH/DBBS/APEB, K. Anger
 CAS NO: VARIOUS
 CHEMICAL: VARIOUS
 PROJECT TYPE: Toxicity Testing; Epidemiology Study

CL-BIB-0174
 TITLE: Assessment of Cocarcinogenic Activity of Asphalt Fumes
 STATUS: Started 10/82; Complete 9/88 (513) 533-8392
 CONTACT: NIOSH/DBBS/ETB, T. Lewis
 CAS NO: 8052-42-4
 CHEMICAL: ASPHALT
 PROJECT TYPE: Toxicity Testing

CL-B1B-0175
TITLE: Inhalation Reproductive and Developmental Toxicity Testing
STATUS: Started 10/84; Complete 9/89
CONTACT: NIOSH/DBBS/ETB, S. Schrader
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicity Testing
CL-B1B-0178
TITLE: Metabolism and Excretion Studies of Bis(2-Methoxyethyl) Ether(Diglyme)
STATUS: Started 10/84; Complete 9/87
CONTACT: NIOSH/DBBS/ETB, D. Richards
CAS NO: 111-96-6
CHEMICAL: BIS(2-METHOXYETHYL)ETHER
PROJECT TYPE: Toxicity Testing

CL-B1B-0175
TITLE: Inhalation Reproductive and Developmental Toxicity Testing
STATUS: Started 10/84; Complete 9/89
CONTACT: NIOSH/DBBS/ETB, S. Schrader
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicity Testing

CL-B1B-0178
TITLE: Metabolism and Excretion Studies of Bis(2-Methoxyethyl) Ether(Diglyme)
STATUS: Started 10/84; Complete 9/87
CONTACT: NIOSH/DBBS/ETB, D. Richards
CAS NO: 111-96-6
CHEMICAL: BIS(2-METHOXYETHYL)ETHER
PROJECT TYPE: Toxicity Testing

CL-B1B-0181
TITLE: V205- NTP Chemical Manager
STATUS: Started 10/83; Complete 9/90
CONTACT: NIOSH/DBBS/ETB, W. Moorman
CAS NO: 1314-62-1
CHEMICAL: VANADIUM PENTOXIDE
PROJECT TYPE: Toxicity Testing

CL-B1B-0182
TITLE: In Vitro Tests for Workplace Carcinogens
STATUS: Started 10/80; Complete 9/88
CONTACT: NIOSH/DBBS/ETB, J. Bohrmann
CAS NO: CL-CARCIN
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicity Testing

CL-B1B-0186
TITLE: Dimethylformamide- NTP Chemical Manager
STATUS: Started 9/85; Complete 9/92
CONTACT: NIOSH/DBBS/ETB, T. Lewis
CAS NO: 68-12-2
CHEMICAL: DIMETHYLFORMAMIDE
PROJECT TYPE: Toxicity Testing

CL-B1B-0188
TITLE: Semen Analysis in Animals, Longitudinal and Field Studies
STATUS: Started 10/84; Complete 10/88
CONTACT: NIOSH/DBBS/ETB, S. Schrader
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicity Testing

CL-B1B-0189
TITLE: Evaluation of Drosophila for Teratogen Screening
STATUS: Started 10/81; Complete 12/87
CONTACT: NIOSH/DBBS/ETB, D. Lynch
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicity Testing

CL-B1B-0190
TITLE: Temporal Factors Influencing Carcinogenicity of Industrial Chemicals
STATUS: Started 10/85; Complete 9/90
CONTACT: NIOSH/DBBS/ETB, W. Moorman
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
SOURCE: Chemical Industry
PROJECT TYPE: Toxicity Testing

CL-B1B-0192
TITLE: Vysniosis Prevention
STATUS: Started 10/81; Complete FY 86
CONTACT: NIOSH/DBBS/ETB, R. Castellan
CAS NO: VARIOUS
CHEMICAL: COTTON DUSTS
SOURCE: Textile Industry
PROJECT TYPE: Epidemiology Study; Toxicity Testing

CL-B1B-0193
TITLE: Occupational Lung Disease Associated with Exposure to Diesel Emissions
STATUS: Started 10/81; Complete 9/87
CONTACT: NIOSH/DBBS/ETB, M. McCawley
CAS NO: CL-DIESEL
CHEMICAL: DIESEL EXHAUST
PROJECT TYPE: Epidemiology Study

CL-B1B-0195
TITLE: Effective Silica Indices of Respirable Mineral Dusts
STATUS: Started 10/84; Complete 9/88
CONTACT: NIOSH/DBBS/ETB, W. Wallace
CAS NO: 7631-86-9
CHEMICAL: SILICA
PROJECT TYPE: Source Sampling

CL-BIB-0198
TITLE: National Occupational Health Survey of Mining
STATUS: Started 10/82; Complete 12/90
CONTACT: NIOSH/DRDS/ENIB, D. Groce
CAS NO: (304) 291-4474
CHEMICAL: VARIOUS
SOURCE: Mining
PROJECT TYPE: Epidemiology Study

CL-BIB-0199
TITLE: Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action
STATUS: Started 10/85; Complete 9/88
CONTACT: NIOSH/DRDS/ENIB, J. Peach
CAS NO: CL-ORGANIC; CL-IAP
CHEMICAL: AEROSOLS; ORGANIC COMPOUNDS; INDOOR AIR POLLUTANTS
SOURCE: Office Buildings
PROJECT TYPE: Source Assessment, Indoor Air

CL-BIB-0201
TITLE: Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions
STATUS: Started 10/81; Completed 9/84; In Publication FY 87
CONTACT: NIOSH/DRDS/EP1B, J. Gamble
CAS NO: CL-DIESEL
CHEMICAL: DIESEL EXHAUST; COAL DUST
SOURCE: Mining
PROJECT TYPE: Epidemiology Study

CL-BIB-0202
TITLE: Morbidity and Industrial Hygiene Study of Mild Steel Welders
STATUS: Started 10/81; Complete 1994
CONTACT: NIOSH/DRDS/EP1B, J. Gamble
CAS NO: 1332-37-2; 1309-37-1; CL-WELD
CHEMICAL: IRON OXIDE; IRON OXIDE FUME, WELDING FUMES
SOURCE: Welding; Steel Industry
PROJECT TYPE: Epidemiology Study

CL-BIB-0205
TITLE: Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners
STATUS: Started 10/82; Complete 9/85, In Publication FY 87
CONTACT: NIOSH/DRDS/EP1B, H. Amardus
CAS NO: 7631-86-9
CHEMICAL: SILICA
SOURCE: Mining
PROJECT TYPE: Epidemiology Study

CL-BIB-0206
TITLE: National Coal Study and Coal Worker Surveillance
STATUS: Started 10/81; Continuing FY 87
CONTACT: NIOSH/DRDS/EP1B, M. Attfield
CAS NO: VARIOUS
CHEMICAL: COAL DUST
SOURCE: Mining
PROJECT TYPE: Epidemiology Study

CL-BIB-0207
TITLE: Study of Workers in the Dusty Trades in North Carolina - MCI
STATUS: Started FY 84; Continuing FY 87
CONTACT: NIOSH/DRDS/EP1B, H. Amardus
CAS NO: 7631-86-9; 1332-21-4
CHEMICAL: SILICA; ASBESTOS
PROJECT TYPE: Epidemiology Study

CL-BIB-0208
TITLE: Health Experience of Industrial Sand Workers
STATUS: Started FY 84; Continuing
CONTACT: NIOSH/DRDS/EP1B, H. Amardus
CAS NO: 7631-86-9
CHEMICAL: SILICA
SOURCE: Sand Industry
PROJECT TYPE: Epidemiology Study

CL-BIB-0210
TITLE: Effects of Formaldehyde on the Respiratory System
STATUS: Started FY 84; Complete FY 89
CONTACT: NIOSH/DRDS/EP1B, J. Gamble
CAS NO: 50-00-0
CHEMICAL: FORMALDEHYDE
PROJECT TYPE: Epidemiology Study

CL-BIB-0211
TITLE: Epidemiologic Environmental Study - Office Workers
STATUS: Draft FY 89
CONTACT: NIOSH/DRDS/EP1B, J. Gamble
CAS NO: CL-IAP
CHEMICAL: VARIOUS; INDOOR AIR POLLUTANTS
SOURCE: Office Buildings
PROJECT TYPE: Epidemiology Study, Indoor Air

CL-BIB-0212
TITLE: Prospective Study of Welders of Mild Steel
STATUS: Draft FY 89
CONTACT: NIOSH/DRDS/EP18, J. Gamble (304) 291-4476
CAS NO: CL-WELD
CHEMICAL: WELDING FUMES
SOURCE: Welding
PROJECT TYPE: Epidemiology Study

CL-BIB-0213
TITLE: Mortality of Diesel Exposed Miners
STATUS: Draft FY 89
CONTACT: NIOSH/DRDS/EP18, J. Gamble (304) 291-4476
CAS NO: CL-DIESEL
CHEMICAL: DIESEL EXHAUST
SOURCE: Mining
PROJECT TYPE: Epidemiology Study

CL-BIB-0214
TITLE: Endotoxins in Cotton- USDA
STATUS: Started 10/82; Complete 9/87
CONTACT: NIOSH/DRDS/L18, S. Olenchok (304) 291-4474
CAS NO: VARIOUS
CHEMICAL: COTTON DUSTS
PROJECT TYPE: Epidemiology Study; Toxicity Testing

CL-BIB-0216
TITLE: Comparative Research in Analytical Pathology
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DRDS/L18, V. Vallyathan (304) 291-4474
CAS NO: VARIOUS
CHEMICAL: COTTON DUSTS; VARIOUS
SOURCE: Coal Mining; Mining; Textile Industry
PROJECT TYPE: Epidemiology Study; Toxicity Testing

CL-BIB-0217
TITLE: Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms
STATUS: Started FY 86; complete 12/88
CONTACT: NIOSH/DRDS/L18, N. Nahon (303) 291-4474
CAS NO: 50-32-8; 1332-21-4; 7631-86-9
CHEMICAL: BENZO(A)PYRENE; ASBESTOS; SILICA; COAL DUST
SOURCE: Mining
PROJECT TYPE: Toxicity Testing

CL-BIB-0218
TITLE: Alveolar Type II Cells; Effect of Silica
STATUS: Started 10/86; Complete 9/88
CONTACT: NIOSH/DRDS/L18, J. Rabovsky (304) 291-4474
CAS NO: 7631-86-9
CHEMICAL: SILICA
SOURCE: Coal Mining
PROJECT TYPE: Toxicity Testing

CL-BIB-0219
TITLE: Mortality Analysis of United Auto Workers Cohorts
STATUS: Started 10/80; Completed 9/83; In Publication 1/86
CONTACT: NIOSH/DSHEFS/1USB, R. Roscoe (513) 841-4203
CAS NO: VARIOUS
CHEMICAL: VARIOUS
SOURCE: Automobile Industry
PROJECT TYPE: Epidemiology Study

CL-BIB-0221
TITLE: Mortality Study of Chemical Plants in Kanawha Valley, West Virginia
STATUS: Started 10/79; complete FY 87
CONTACT: NIOSH/DSHEFS/1USB, R. Rinsky (513) 841-4203
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
SOURCE: Chemical Industry
PROJECT TYPE: Epidemiology Study

CL-BIB-0222
TITLE: Mortality and Industrial Hygiene Study of Workers Exposed to Toluene
STATUS: Started 10/79; Complete FY 86; Final Report in Review
CONTACT: NIOSH/DSHEFS/1USB, F. Stern (513) 841-4203
CAS NO: 108-88-3
CHEMICAL: TOLUENE
PROJECT TYPE: Epidemiology Study

CL-BIB-0223
TITLE: Mortality and Industrial Hygiene Study of Formaldehyde
STATUS: Started 10/80; Continuing FY 87
CONTACT: NIOSH/DSHEFS/1USB, L. Stayner (513) 841-4203
CAS NO: 50-00-0
CHEMICAL: FORMALDEHYDE
PROJECT TYPE: Epidemiology Study

CL-BIB-0224
TITLE: Ethylene Oxide Mortality Study - MCI
STATUS: Started 10/82; Complete FY 88
CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland (513) 841-4203
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
PROJECT TYPE: Epidemiology Study

CL-BIB-0225
TITLE: Investigation of Workers Exposed to MOCA
STATUS: Started 10/82; Complete FY 87
CONTACT: NIOSH/DSHEFS/IWSB, E. Ward (513) 841-4203
CAS NO: 101-14-4
CHEMICAL: MOCA
PROJECT TYPE: Epidemiology Study

CL-BIB-0226
TITLE: Mortality of Dioxin Workers
STATUS: Started 10/79; Complete FY 87
CONTACT: NIOSH/DSHEFS/IWSB, M. Fingerhut (513) 841-4203
CAS NO: 95-95-4; 87-86-5; CL-DIOXIN
CHEMICAL: DIOXINS; 2,4,5-TRICHLOROPHENOL; PENTACHLOROPHENOL
PROJECT TYPE: Epidemiology Study

CL-BIB-0227
TITLE: Update of Completed Cohort Mortality Studies - MCI
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, D. Brown (513) 841-4203
CAS NO: 1336-36-3; 127-18-4; 100-42-5; 106-99-0; 71-43-2; 7440-43-9; 75-01-4; CL-PEST;
CHEMICAL: POLYCHLORINATED BIPHENYLS (PCB); PERCHLOROETHYLENE; PESTICIDES; RUBBER; STYRENE; BUTADIENE; BENZENE; CADMIUM; VINYL CHLORIDE
PROJECT TYPE: Epidemiology Study

CL-BIB-0228
TITLE: Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - MCI
STATUS: Started 10/82; Complete FY 87
CONTACT: NIOSH/DSHEFS/IWSB, J. Walker (513) 841-4203
CAS NO: 7440-47-3; 7758-97-6
CHEMICAL: LEAD CHROMATE; CHROMIUM
PROJECT TYPE: Epidemiology Study

CL-BIB-0229
TITLE: Beryllium Retrospective Cohort Investigation - MCI
STATUS: Started 10/81; Complete FY 87
CONTACT: NIOSH/DSHEFS/IWSB, L. Ward (513) 841-4203
CAS NO: 7440-41-7
CHEMICAL: BERYLLIUM
PROJECT TYPE: Epidemiology Study

CL-BIB-0230
TITLE: Medical, Biometric and Industrial Hygiene Study of Emerging Problems
STATUS: Started 10/79; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, W. Halperin (513) 841-4203
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Epidemiology Study

CL-BIB-0231
TITLE: Health Hazard Evaluations and Technical Assistance
STATUS: Started 10/80; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, J. Melius (513) 841-4203
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Epidemiology Study; Health Assessment

CL-BIB-0232
TITLE: Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA
STATUS: Started 10/81; Continuing
CONTACT: NIOSH/DSHEFS/IWSB, D. Brown (513) 841-4203
CAS NO: 117-81-7; 75-21-8; 50-00-0; 101-14-4; VARIOUS
CHEMICAL: DEHP; ETHYLENE OXIDE; MOCA; FORMALDEHYDE; ORGANOTIN; GLYCOL ETHERS
PROJECT TYPE: Epidemiology Study; Health Assessment

CL-BIB-0233
TITLE: Cohort Mortality Study of Antimony Smelter Workers
STATUS: Started FY 84; In Progress FY 87
CONTACT: NIOSH/DSHEFS/IWSB, T. Schnorr (513) 841-4203
CAS NO: 7440-36-0
CHEMICAL: ANTIMONY
SOURCE: Smelters
PROJECT TYPE: Epidemiology Study

CL-BIB-0234
TITLE: Exposure to Butadiene in the Industrial Environment
STATUS: Started FY 84; In Progress FY 87 (513) 841-4203
CONTACT: NIOSH/DSHEFS/IWSB, J. Fajen
CAS NO: 106-99-0
CHEMICAL: BUTADIENE
SOURCE: Chemical Industry
PROJECT TYPE: Exposure Assessment

CL-BIB-0236
TITLE: Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin
STATUS: Started FY 84; In Progress FY 88
CONTACT: NIOSH/DSHEFS/IWSB, M. Sweeny (513) 841-4203
CAS NO: 1746-01-6; CL-DIOXIN
CHEMICAL: DIOXINS; 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
PROJECT TYPE: Epidemiology Study

CL-BIB-0238
TITLE: Mortality Study of Workers Exposed to Chlorinated Naphthalenes
STATUS: Started FY 84; In Progress FY 87 (513) 841-4203
CONTACT: NIOSH/DSHEFS/IWSB, E. Ward
CAS NO: VARIOUS; CL-ORGANIC
CHEMICAL: CHLORINATED NAPHTHALENES
PROJECT TYPE: Epidemiology Study

CL-BIB-0239
TITLE: Causes of Mortality Among Workers Exposed to Methyleneedianiline (MDA)
STATUS: Started FY 84; In Progress FY 88 (513) 841-4203
CONTACT: NIOSH/DSHEFS/IWSB, M. Boeniger
CAS NO: 101-77-9
CHEMICAL: METHYLENEDIANILINE
PROJECT TYPE: Epidemiology Study

CL-BIB-0240
TITLE: Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium
STATUS: Started FY 84; In Progress FY 87 (513) 841-4203
CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland
CAS NO: CL-WELD
CHEMICAL: WELDING FUMES
SOURCE: Steel Industry; Welding
PROJECT TYPE: Epidemiology Study

CL-BIB-0241
TITLE: Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills
STATUS: Started FY 84; In Progress FY 87 (513) 841-4203
CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland
CAS NO: 7664-93-9
CHEMICAL: SULFURIC ACID
SOURCE: Steel Industry
PROJECT TYPE: Epidemiology Study

CL-BIB-0242
TITLE: Study of Lung Cancer Mortality Among Teamsters
STATUS: Started FY 84; In Progress FY 87 (513) 841-4203
CONTACT: NIOSH/DSHEFS/IWSB, K. Steenland
CAS NO: CL-DIESEL
CHEMICAL: DIESEL EXHAUST
SOURCE: Mobile Sources
PROJECT TYPE: Epidemiology Study

CL-BIB-0243
TITLE: Cohort Mortality Study of Toluene Diisocyanate Exposed Workers
STATUS: Started FY 84; In Progress FY 87 (513) 841-4203
CONTACT: NIOSH/DSHEFS/IWSB, T. Schnorr
CAS NO: 26471-62-5
CHEMICAL: TOLUENE DIISOCYANATE
PROJECT TYPE: Epidemiology Study

CL-BIB-0244
TITLE: Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI
STATUS: Started FY 84; In Progress FY 87 (513) 841-4203
CONTACT: NIOSH/DSHEFS/IWSB, R. Roscoe
CAS NO: 10043-92-2; VARIOUS
CHEMICAL: RADON; VARIOUS
SOURCE: Uranium Mines; Mining
PROJECT TYPE: Epidemiology Study

CL-BIB-0246
TITLE: Mortality of Sulfuric Acid Exposed Workers
STATUS: In Publication FY 86 (513) 841-4203
CONTACT: NIOSH/DSHEFS/IWSB, J. Beaumont
CAS NO: 7664-93-9
CHEMICAL: SULFURIC ACID
SOURCE: Steel Industry
PROJECT TYPE: Epidemiology Study

CL-BIB-0247
 TITLE: Morbidity and Mortality Study of Workers Exposed to Nitroglycerin
 STATUS: Ongoing 1987
 CONTACT: NIOSH/DSHEFS/IWSB, L. Stayner (513) 841-4203
 CAS NO: 55-63-0
 CHEMICAL: NITROGLYCERIN
 SOURCE: Dynamite; Chemical Industry
 PROJECT TYPE: Epidemiology Study

CL-BIB-0249
 TITLE: A Study of Worker Exposure to Grain Fumigants
 STATUS: Ongoing 1987
 CONTACT: NIOSH/DSHEFS/IWSB, I. Zaebs (513) 841-4203
 CAS NO: VARIOUS
 CHEMICAL: GRAIN FUMIGANTS
 SOURCE: Grain Handling, Agriculture
 PROJECT TYPE: Epidemiology Study

CL-BIB-0250
 TITLE: Occupational Exposure During Sugar Cane Harvesting
 STATUS: Ongoing 1987
 CONTACT: NIOSH/DSHEFS/IWSB, M. Boeniger (513) 841-4203
 CAS NO: 7631-86-9; CL-POM
 CHEMICAL: SILICA FIBERS; POLYCYCLIC ORGANIC MATTER
 SOURCE: Sugar Cane Harvesting; Agriculture
 PROJECT TYPE: Exposure Assessment

CL-BIB-0252
 TITLE: Access to National Occupational Hazard Survey Data Base Profile Development
 STATUS: Started 10/78; Continuing
 CONTACT: NIOSH/DSHEFS/SB, J. Seta (513) 841-4303
 CAS NO: VARIOUS
 CHEMICAL: VARIOUS
 PROJECT TYPE: Epidemiology Study

CL-BIB-0253
 TITLE: Surveillance Cooperative Agreements Between NIOSH and States
 STATUS: Started 10/79, Continuing FY 87
 CONTACT: NIOSH/DSHEFS/SB, W. Crouse (513) 841-4303
 CAS NO: VARIOUS
 CHEMICAL: VARIOUS
 PROJECT TYPE: Epidemiology Study

CL-BIB-0254
 TITLE: Acrolein Preliminary Source Assessment
 STATUS: Publish 11/87
 CONTACT: OAQPS/ESED/CPB; Les Evans (919) 541-5410
 CAS NO: 107-02-8
 CHEMICAL: ACROLEIN
 SOURCE: Combustion Sources, esp. Woodburning
 PROJECT TYPE: Source Assessment

CL-BIB-0255
 TITLE: Phosgene Preliminary Source Assessment
 STATUS: In Progress FY 87
 CONTACT: OAQPS/ESED/CPB; Les Evans (919) 541-5410
 CAS NO: 75-44-5
 CHEMICAL: PHOSGENE
 SOURCE: Phosgene Production and Use
 PROJECT TYPE: Source Assessment

CL-BIB-0256
 TITLE: Acetaldehyde Preliminary Source Assessment
 STATUS: Publish 11/87
 CONTACT: OAQPS/ESED/CPB, Les Evans (919) 541-5410
 CAS NO: 75-07-0
 CHEMICAL: ACETALDEHYDE
 SOURCE: Combustion Sources-esp. Woodburning
 PROJECT TYPE: Source Assessment

CL-BIB-0257
 TITLE: Engineering Study: Standards Development for Hazardous Waste Proposal 3/88
 STATUS: OAQPS/ESED/CPB; K. Hestvedt (919) 541-53/5
 CONTACT: OAQPS/ESED/CPB; K. Hestvedt
 CAS NO: CL-HAZWAST
 CHEMICAL: HAZARDOUS WASTE
 PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0258
 TITLE: Assessment of Potential Emissions from Wafer Board Manufacturing Plants
 STATUS: In Progress FY 87
 CONTACT: OAQPS/ESED/ISB; Lee Beck (919) 541-5598
 CAS NO: CL-RESIN, CL-ORGANIC
 CHEMICAL: VARIOUS
 PROJECT TYPE: Source Assessment

CL-BIB-0259	TITLE: Assessment of Potential Sources of Toluene Diisocyanate (TDI) Emissions PUBLISHED: 5/87 STATUS: OQPS/ESED/ISB; Lee Beck (919) 541-5598 CONTACT: 26471-62-5 CAS NO: TOLUENE DIISOCYANATE (TDI) CHEMICAL: Source Assessment PROJECT TYPE:	CL-BIB-0264	TITLE: Decision on Regulation of Hydrocyanic Acid Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OQPS/SASD/PAB; B. Riddle (919) 541-5341 CAS NO: 74-90-8 CHEMICAL: HYDROCYANIC ACID PROJECT TYPE: Pre-Regulatory Assessment
CL-BIB-0260	TITLE: Chromium Project for Industrial Cooling Towers STATUS: Proposed 8/87 CONTACT: OQPS/ESED/SDB; G. Wood (919) 541-5625 CAS NO: 7440-47-3 CHEMICAL: CHROMIUM SOURCE: Industrial Cooling Towers PROJECT TYPE: Regulations or Rules (TSCA)	CL-BIB-0265	TITLE: Decision on Regulation of Propylene Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OQPS/SASD/PAB; M. Pate (919) 541-5347 CAS NO: 115-07-1 CHEMICAL: PROPYLENE PROJECT TYPE: Pre-Regulatory Assessment
CL-BIB-0261	TITLE: Hazardous Organic NESMAP STATUS: Proposed 9/87 CONTACT: OQPS/ESED/SDB; D. Bell (919) 541-5778 CAS NO: 106-99-0, 75-09-2, 127-18-4, 79-01-6, 56-23-5, 67-66-3, 107-06-2, 75-21-8 CHEMICAL: BUTADIENE, METHYLENE CHLORIDE, PERCHLOROETHYLENE, TRICHLOROETHYLENE, CARBON TETRACHLORIDE, CHLOROFORM, ETHYLENE DICHLORIDE, ETHYLENE OXIDE PROJECT TYPE: NESMAP	CL-BIB-0266	TITLE: Municipal Waste Combustion Study STATUS: In Progress 1987 CONTACT: OQPS/SASD/PAB; R. Morrison (919) 541-5330 CAS NO: D. Cleverly (919) 541-5332 CHEMICAL: VARIOUS SOURCE: Municipal Waste Combustion PROJECT TYPE: Pre-Regulatory Assessment
CL-BIB-0262	TITLE: Locating and Estimating Air Emissions from Sources of Benzene STATUS: Complete FY 88 CONTACT: OQPS/NOAD/AMTB; W. Kuykendahl (919) 541-5575 CAS NO: 71-43-2 CHEMICAL: BENZENE PROJECT TYPE: Emissions Factor; Source Assessment	CL-BIB-0267	TITLE: Decision on Regulation of Phosphorus Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OQPS/SASD/PAB; S. Voorhees (919) 541-5348 CAS NO: 7723-14-0 CHEMICAL: PHOSPHORUS PROJECT TYPE: Pre-Regulatory Assessment
CL-BIB-0263	TITLE: Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (POM) STATUS: Complete FY 87 CONTACT: OQPS/NOAD/AMTB; T. Lehre (919) 541-5585 CAS NO: CL-ORGANIC CHEMICAL: POLYCYCLIC ORGANIC MATERIAL (POM) PROJECT TYPE: Emission Factor, Source Assessment	CL-BIB-0268	TITLE: Decision on Regulation of Ethyl Chloride Under the Clean Air Act STATUS: In Progress 1987 CONTACT: OQPS/SASD/PAB; B. Hassett (919) 541-5346 CAS NO: 75-00-3 CHEMICAL: ETHYL CHLORIDE PROJECT TYPE: Pre-Regulatory Assessment

CL-BIB-0269	Decision on Regulation of Dimethylamine Under the Clean Air Act	CL-BIB-0274	Decision on Regulation of Hydrogen Fluoride Under the Clean Air Act
TITLE:		TITLE:	
STATUS:	In Progress 1987	STATUS:	In Progress 1987
CONTACT:	OAGPS/SASD/PAB; B. Hassett	CONTACT:	OAGPS/SASD/PAB; W. Peters
CAS NO:	124-40-3	CAS NO:	7664-39-3
CHEMICAL:	DIMETHYLAMINE	CHEMICAL:	HYDROGEN FLUORIDE
PROJECT TYPE:	Pre-Regulatory Assessment	PROJECT TYPE:	Pre-Regulatory Assessment
CL-BIB-0270	Decision on Regulation of Selenium and its Compounds Under the Clean Air Act	CL-BIB-0275	Decision on Regulation of Methyl Methacrylate Under the Clean Air Act
TITLE:		TITLE:	
STATUS:	In Progress 1987	STATUS:	In Progress 1987
CONTACT:	OAGPS/SASD/PAB; I. Cote	CONTACT:	OAGPS/SASD/PAB; I. Cote
CAS NO:	7782-49-2	CAS NO:	80-62-6
CHEMICAL:	SELENIUM AND ITS COMPOUNDS	CHEMICAL:	METHYL METHACRYLATE
PROJECT TYPE:	Pre-Regulatory Assessment	PROJECT TYPE:	Pre-Regulatory Assessment
CL-BIB-0271	Decision on Regulation of Phthalic Anhydride Under the Clean Air Act	CL-BIB-0276	Decision on Regulation of Maleic Anhydride Under the Clean Air Act
TITLE:		TITLE:	
STATUS:	In Progress 1987	STATUS:	In Progress 1987
CONTACT:	OAGPS/SASD/PAB; F. Hauchman	CONTACT:	OAGPS/SASD/PAB; F. Hauchman
CAS NO:	85-44-9	CAS NO:	108-31-6
CHEMICAL:	PHthalic ANHYDRIDE	CHEMICAL:	MALEIC ANHYDRIDE
PROJECT TYPE:	Pre-Regulatory Assessment	PROJECT TYPE:	Pre-Regulatory Assessment
CL-BIB-0272	Decision on Regulation of Sodium Hydroxide Under the Clean Air Act	CL-BIB-0277	Decision on Regulation of Mercuric Chloride Under the Clean Air Act
TITLE:		TITLE:	
STATUS:	In Progress 1987	STATUS:	In Progress 1987
CONTACT:	OAGPS/SASD/PAB; T. Mohin	CONTACT:	OAGPS/SASD/PAB; R. Morrison
CAS NO:	1310-73-2	CAS NO:	7487-94-7
CHEMICAL:	SODIUM HYDROXIDE	CHEMICAL:	MERCURIC CHLORIDE
PROJECT TYPE:	Pre-Regulatory Assessment	PROJECT TYPE:	Pre-Regulatory Assessment
CL-BIB-0273	Decision on Regulation of Camphochlor Under the Clean Air Act	CL-BIB-0278	Decision on Regulation of Methanol Under the Clean Air Act
TITLE:		TITLE:	
STATUS:	In Progress 1987	STATUS:	In Progress 1987
CONTACT:	OAGPS/SASD/PAB; B. Riddle	CONTACT:	OAGPS/SASD/PAB; D. Cleverly
CAS NO:	8001-35-2	CAS NO:	67-56-1
CHEMICAL:	CAMPHOCHLOR	CHEMICAL:	METHANOL
PROJECT TYPE:	Pre-Regulatory Assessment	PROJECT TYPE:	Pre-Regulatory Assessment

CL-BIB-0279
TITLE: Health Assessment for Chromium, Update
STATUS: In Progress FY 87
CONTACT: OHEA/ECAO-RTP; S. Duk Lee (919) 541-4173
CAS NO: 7440-47-3
CHEMICAL: CHROMIUM
PROJECT TYPE: Health Assessment

CL-BIB-0280
TITLE: Health Assessment Document for Chlorine & Hydrogen Chloride, External Review
STATUS: In Progress FY 87
CONTACT: OHEA/ECAO-RTP; B. Comfort (919) 541-4165
CAS NO: 7782-50-5, 7647-01-0
CHEMICAL: CHLORINE, HYDROGEN CHLORIDE
PROJECT TYPE: Health Assessment

CL-BIB-0281
TITLE: Development of Methods to Interpret Metabolism Data
STATUS: Started January 1985; Complete 7/87
CONTACT: OHEA/EAG; R. Walentowicz (202) 475-8922
PROJECT TYPE: Exposure Assessment, Toxicity Testing

CL-BIB-0282
TITLE: Health Assessment for Trichloroethylene-Cancer Update
STATUS: In Progress FY 87
CONTACT: OHEA/CAG; Charlie Ris (202) 382-5952
CAS NO: 79-01-6
CHEMICAL: TRICHLOROETHYLENE
PROJECT TYPE: Health Assessment

CL-BIB-0283
TITLE: Chemical Hazard Information Profile for Methyl Carbamate
STATUS: In Preparation 1987
CONTACT: OTS/A/CSB; J. Leitzke
CAS NO: 598-55-0
CHEMICAL: METHYL CARBAMATE
PROJECT TYPE: CHIP

CL-BIB-0284
TITLE: Chemical Hazard Information Profile for Benzotriazol-Based UV Light In Preparation 1987
STATUS: OTS/A/CSB; J. Leitzke (202) 382-3507
CONTACT: 95-14-7, VARIOUS
CAS NO: BENZOTRIAZOL
CHEMICAL: UV Light Stabilizers
SOURCE: CHIP
PROJECT TYPE: CHIP

CL-BIB-0285
TITLE: Chemical Hazard Information Profile for Piperonyl-Based UV Light Stabilizers In Preparation 1987
STATUS: OTS/A/CSB; J. Leitzke (202) 382-3507
CONTACT: 1893-33-0
CAS NO: PIPERONYL
CHEMICAL: UV Light Stabilizers
SOURCE: CHIP
PROJECT TYPE: CHIP

CL-BIB-0286
TITLE: Toxics Air Monitoring Systems (TAMS) Ongoing 1987; Complete 1991
STATUS: ORO/EMSL-RTP; G. Evans (919) 541-3124
CONTACT: CL-VOC
CAS NO: VOC
CHEMICAL: Ambient Monitoring
PROJECT TYPE: VOC

CL-BIB-0287
TITLE: Analytical Methods Development for Toxic Substances
STATUS: Started 10/80; Complete 12/89
CONTACT: EMSL-RTP; R.E. Lee (919) 541-2106
CAS NO: CL-WOOD, CL-PH
CHEMICAL: WOOD SMOKE, PARTICULATE MATTER
SOURCE: Automotive Exhaust, Urban Particulate Matter, Wood Smoke
PROJECT TYPE: Ambient Monitoring, Source Sampling

CL-BIB-0288
TITLE: Development Ambient Methods for Hazardous Waste
STATUS: Started 10/82, Complete 12/89
CONTACT: EMSL-RTP; R.E. Lee (919) 541-2106
CAS NO: CL-HAZWAST
CHEMICAL: HAZARDOUS WASTE
PROJECT TYPE: Ambient Monitoring

CL-BIB-0209	Develop Source Methods for Hazardous Waste	(919) 541-2106	Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data
TITLE:	Started 10/86; Complete 9/88		Ongoing FY 87
STATUS:	CONTACT: EMSL-RTP; M.R. Midgett		EPA Region V; John Summerhays (312) 353-6009
CAS NO:	CL-HAZWAST		CL-CARCIN
CHEMICAL:	HAZARDOUS WASTE		CARCINOGENS
PROJECT TYPE:	Source Sampling		Airports
CL-BIB-0200	Indoor Air Quality Research	(919) 541-2106	Dispersion Modeling, Ambient Monitoring
TITLE:	Started 10/86; Complete 9/90		
STATUS:	CONTACT: EMSL-RTP; C.E. Rodas		Estimation of Hazardous Air Emissions in Southeast Chicago from TSD
CAS NO:	CL-IAP		Ongoing FY 87
CHEMICAL:	INDOOR AIR POLLUTANTS		EPA Region V; Harriet Croke (312) 242-6009
PROJECT TYPE:	Indoor Air, Source Assessment, Exposure Assessment, Health Assessment		VARIOUS
CL-BIB-0201	Monitoring Human Exposure to MAPs	(919) 541-2106	TSD
TITLE:	Started 10/82; Complete 12/89		Source Assessment
STATUS:	CONTACT: EMSL-RTP; V.R. Highsmith		
CAS NO:	VARIOUS		Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho
CHEMICAL:	VARIOUS		Ongoing FY 87
PROJECT TYPE:	Exposure Assessment		EPA Region X; John Schweiss (206) 442-1757
CL-BIB-0202	Dioxin Analysis of Hospital Incinerator Ash	(617) 565-3232	VARIOUS
TITLE:	Publish Draft 5/87		Sugar Beet Processing Plant
STATUS:	CONTACT: EPA Region I; S. Levinson		Source Assessment, Ambient Monitoring
CAS NO:	CL-DIOXIN		
CHEMICAL:	DIOXIN		Study to Define and Determine Mitigation Methods for Air Pollution in Puget Sound
SOURCE:	Hospitals, Incinerators		Ongoing FY 87
PROJECT TYPE:	Source Assessment		EPA Region X; Maydene Maykut (206) 442-1757
CL-BIB-0203	The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility	(215) 597-9808	VARIOUS
TITLE:	To be Completed March 1987		VARIOUS
STATUS:	CONTACT: EPA Region III; D. Ryan;		Source Assessment, Control Technology
CAS NO:	VARIOUS		
CHEMICAL:	VARIOUS		Ambient Air Monitoring in Portland, Oregon (Urban Soup)
SOURCE:	Wastewater Treatment Facility		Ongoing FY 87
PROJECT TYPE:	Source Sampling		EPA Region X; Greg Lende (206) 442-1757
			VARIOUS
			CHEMICAL: VARIOUS
			PROJECT TYPE: Source Assessment, Control Technology

CL-B1B-0299
TITLE: Ambient Air Monitoring for PCBs in El Dorado, Arkansas
STATUS: Ongoing FY 87
CONTACT: EPA Region VI; J. Mitchell; (214) 655-7208
CAS NO: 1336-36-3
CHEMICAL: PCBs
SOURCE: Hazardous Waste Incinerators
PROJECT TYPE: Ambient Monitoring

CL-B1B-0300
TITLE: Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient
STATUS: Ongoing FY 87
CONTACT: OPP/RD/Special Review; J. Roeloff(202) 557-0064
CAS NO: 76-44-8
CHEMICAL: HEPTACHLOR
PROJECT TYPE: Source Assessment, Indoor Air, Ambient Monitoring, Regulatory Development Guidance

CL-B1B-0301
TITLE: Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient
STATUS: Ongoing FY 87
CONTACT: OPP/RD/Special Review; J. Roeloff(202) 557-0064
CAS NO: 309-00-2
CHEMICAL: ALDRIN
PROJECT TYPE: Source Assessment, Indoor Air, Ambient Monitoring, Regulatory Development Guidance

CL-B1B-0302
TITLE: Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient
STATUS: Ongoing FY 87
CONTACT: OPP/RD/Special Review; J. Roeloff(202) 557-0064
CAS NO: 57-74-9
CHEMICAL: CHLORDANE
PROJECT TYPE: Source Assessment, Indoor Air, Ambient Monitoring, Regulatory Development Guidance

CL-B1B-0303
TITLE: Cellular and Molecular Cardiac Toxicology
STATUS: Started 10/86; Complete 9/89
CONTACT: NIOSH/DBBS/ETB; M. Torrason; (513) 533-8392
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicity Testing

CL-B1B-0304
TITLE: Arylamine Adducts in Blood as Indicators of Exposure
STATUS: Started 10/85; Complete 10/88
CONTACT: NIOSH/DBBS/ETB; K. Cheever; (513) 533-8392
CAS NO: 101-14-4
CHEMICAL: 4,4' - METHYLENE BIS (2-CHLOROANILINE)
PROJECT TYPE: Toxicity Testing

CL-B1B-0305
TITLE: Development of Short Term Assays to Predict Dust-Induced Lung Disease
STATUS: Pilot Study - Lit. Review 9/87
CONTACT: NIOSH/DBBS/TSB; J. Patrick Mustin(513) 533-8433
CAS NO: 1332-21-4, VARIOUS
CHEMICAL: ASBESTOS DUST, COAL SLAG DUSTS, MATERIALS SUBSTITUTES, MANMADE MINERAL FIBERS
PROJECT TYPE: Toxicity Testing

CL-B1B-0306
TITLE: Evaluation of Mesothelioma Production by Asbestos Substitutes
STATUS: Started 10/84; Complete 6/90
CONTACT: NIOSH/DBBS/TSB; Frank Platek; (513) 533-8433
CAS NO: 1332-21-4, VARIOUS
CHEMICAL: ASBESTOS, ASBESTOS SUBSTITUTES
PROJECT TYPE: Toxicity Testing

CL-B1B-0307
TITLE: Particulate and Tissue Analysis Service and Research
STATUS: Started 10/82; Continuing
CONTACT: NIOSH/DBBS/TSB; Frank Platek; (513) 533-8433
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Toxicity Testing, Source Sampling

CL-B1B-0308
TITLE: Pulmonary Response to Inhaled Fibrogenic Minerals
STATUS: Started 10/86; Complete 9/89
CONTACT: NIOSH/DBBS/LIB; V. Valleythan; (304) 291-4474
CAS NO: CL-MINFIB
CHEMICAL: MINERAL FIBER
SOURCE: Mining, Construction
PROJECT TYPE: Toxicity Testing

CL-BIB-0309
TITLE: Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis
STATUS: Started 10/83; Complete 9/87
CONTACT: MIOSEN/DROS/LIB; V. Castranova (304) 291-4474
CAS NO: 7631-86-9
CHEMICAL: SILICA
SOURCE: Mining, Construction
PROJECT TYPE: Toxicity Testing

CL-BIB-0310
TITLE: Clinton, New Jersey Radon Mitigation Follow-up and Long-term Testing
STATUS: Started 1/5/87; Complete 6/5/87
CONTACT: AEERL-RTP; M. Osborne (919) 541-4113
CAS NO: 10043-92-2
CHEMICAL: RADON
PROJECT TYPE: Indoor Air, Control Technology, Source Sampling

CL-BIB-0311
TITLE: Demonstration of Mitigative Techniques in Existing Houses and New House Construction Techniques to Control Indoor Radon Exposure
STATUS: Started 7/31/86; Complete 3/31/88 (919) 541-4113
CONTACT: AEERL-RTP; M. Osborne
CAS NO: 10043-92-2
CHEMICAL: RADON
PROJECT TYPE: Indoor Air, Control Technology

CL-BIB-0312
TITLE: Development and Demonstration of Indoor Radon Reduction Measures for Homes
STATUS: Started 3/17/87; Complete 11/17/89
CONTACT: AEERL-RTP; D. Henschel (919) 541-4112
CAS NO: 10043-92-2
CHEMICAL: RADON
PROJECT TYPE: Indoor Air, Control Technology

CL-BIB-0313
TITLE: Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques
STATUS: Started 6/6/86; Complete 12/31/87
CONTACT: AEERL-RTP; D. Sanchez (919) 541-2979
CAS NO: 10043-92-2
CHEMICAL: RADON
PROJECT TYPE: Source Assessment, Source Sampling, Control Technology, Indoor Air

CL-BIB-0314
TITLE: Development and Demonstration of Indoor Radon Reduction Measure for up to Ten Homes in New Jersey
STATUS: Started 4/11/86; Complete 3/15/87
CONTACT: AEERL-RTP; M. Osborne (919) 541-4113
CAS NO: 10043-92-2
CHEMICAL: RADON
PROJECT TYPE: Control Technology, Indoor Air

CL-BIB-0315
TITLE: Evaluate Radon Mitigation Systems Installed by Local Contractors and Individual Homeowners in Clinton, M. J.
STATUS: Started 12/8/86; Complete 1/19/87 (919) 541-4113
CONTACT: AEERL-RTP; M. Osborne
CAS NO: 10043-92-2
CHEMICAL: RADON
PROJECT TYPE: Indoor Air, Control Technology

CL-BIB-0316
TITLE: Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II
STATUS: Started 2/13/87; Complete 9/30/87 (919) 541-7633
CONTACT: AEERL-RTP; C. Darvin
CAS NO: 75-21-8
CHEMICAL: ETHYLENE OXIDE
SOURCE: Hospital Sterilizers
PROJECT TYPE: Control Technology

CL-BIB-0317
TITLE: Investigation of Radon Entry into Houses and Effectiveness of Mitigation Techniques - Evaluation Phase
STATUS: Started 8/8/86; Complete 9/30/88 (919) 541-2979
CONTACT: AEERL-RTP; D. Sanchez
CAS NO: 10043-92-2
CHEMICAL: RADON
PROJECT TYPE: Indoor Air, Control Technology

CL-BIB-0318
TITLE: Development and Demonstration of Indoor Radon Reduction Measures for Homes
STATUS: Started 9/30/86; Complete 5/30/89
CONTACT: AEERL-RTP; J. S. Ruppertsberger (919) 541-2734
CAS NO: 10043-92-2
CHEMICAL: RADON
PROJECT TYPE: Control Technology, Indoor Air, Source Sampling

CL-BIB-0319
TITLE: Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1
STATUS: Started 12/12/86; Complete 4/30/87 (919) 541-2708
CONTACT: AEERL-RTP; N. Smith
CAS NO: 593-70-4, CL-CFC
CHEMICAL: CHLOROFLUOROMETHANE, CHLOROFLUOROCARBONS
SOURCE: Foam Blowing
PROJECT TYPE: Source Sampling, Regulatory Development Guidance

CL-BIB-0320
TITLE: Chemical-Specific Manuals for Accidental Releases and Hazard Identification Systems
STATUS: Started 11/1/86; Complete 4/30/87
CONTACT: AEERL-RTP; T. K. Jones (919) 541-2852
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Emergency Response

CL-BIB-0321
TITLE: Air Toxic Accidental Release Prevention Reference Manual - Mitigation Technology
STATUS: Started 1/1/87; Complete 7/30/87 (919) 541-2852
CONTACT: AEERL-RTP; T. K. Jones
CAS NO: VARIOUS
CHEMICAL: VARIOUS
PROJECT TYPE: Control Technology, Emergency Response

CL-BIB-0322
TITLE: POMC and PIC Screening
STATUS: Started 6/30/86; Complete 7/30/87
CONTACT: AEERL-RTP; L. D. Johnson (919) 541-7943
CAS NO: CL-NAZUAST
CHEMICAL: HAZARDOUS WASTES
PROJECT TYPE: Emission Factor

CL-BIB-0323
TITLE: Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2
STATUS: Started 12/12/86; Complete 4/30/87
CONTACT: AEERL-RTP; D. L. Harmon (919) 541-2429
CAS NO: 593-70-4, CL-CFC
CHEMICAL: CHLOROFLUOROMETHANE, CHLOROFLUOROCARBONS
SOURCE: Refrigerants
PROJECT TYPE: Source Sampling, Regulatory Development Guidance

CL-BIB-0324
TITLE: CFC Chemical Substitutes
STATUS: Started 8/15/86; Complete 3/13/87 (919) 541-2708
CONTACT: AEERL-RTP; N. Smith
CAS NO: CL-CFC, 593-70-4
CHEMICAL: CHLOROFLUOROCARBONS, CHLOROFLUOROMETHANE
PROJECT TYPE: Control Technology

CL-BIB-0325
TITLE: Catalytic Wood Stove Field Performance and Emission Monitoring
STATUS: Started 3/31/86; Complete 3/31/88 (919) 541-2733
CONTACT: AEERL-RTP; R. McGrillis
CAS NO: CL-WOOD
CHEMICAL: WOOD SMOKE, VARIOUS
SOURCE: Wood Stoves
PROJECT TYPE: Source Sampling, Emission Factor

CL-BIB-0326
TITLE: Chamber Studies Characterizing Emissions from Unvented Combustion Sources
STATUS: Started 8/20/86; Complete 8/31/89 (919) 541-2851
CONTACT: AEERL-RTP; J. White
CAS NO: C-IAP
CHEMICAL: INDOOR AIR POLLUTANTS
PROJECT TYPE: Source Assessment, Emission Factor, Indoor Air

CL-BIB-0328
TITLE: Toxics and VOC Research Program Priority Development
STATUS: Started 9/29/86; Complete 2/28/87 (919) 541-7633
CONTACT: AEERL-RTP; C. Darvin
CAS NO: CL-VOC
CHEMICAL: HAZARDOUS AIR POLLUTANTS; ORGANIC COMPOUNDS
PROJECT TYPE: Source Sampling, Emission Factor

CL-BIB-0329
TITLE: Determining Wood Stove Catalyst Emission Control Performance Degradation
STATUS: Started 10/10/86; Complete 6/10/87 (919) 541-2733
CONTACT: AEERL-RTP; R. McGrillis
CAS NO: CL-WOOD
CHEMICAL: VARIOUS, WOOD SMOKE
SOURCE: Wood Stoves
PROJECT TYPE: Emission Factor, Control Technology

CL-BIB-0330	Study of the Effects of Appliance Type and Operating Variables on Residential Wood Combustion Emissions	CL-BIB-0335	VOC and MAP Control of Department of Defense Facilities
TITLE:		TITLE:	
STATUS:	Started 3/17/87; Complete 3/17/88	STATUS:	Started 2/9/87; Complete 9/30/87
CONTACT:	AEERL-RTP; R. McGrillis	CONTACT:	AEERL-RTP; C. Darvin
CAS NO:	CL-WOOD	CAS NO:	CL-VOC
CHEMICAL:	WOOD SMOKE, VARIOUS	CHEMICAL:	HAZARDOUS AIR POLLUTANTS, ORGANIC COMPOUNDS
SOURCE:	Residential Wood Stoves	SOURCE:	DOD Facilities
PROJECT TYPE:	Emission Factor, Control Technology	PROJECT TYPE:	Source Sampling, Control Technology
CL-BIB-0331	Development of Ultraviolet Curing for Furniture Finishers	CL-BIB-0337	Vapor Phase Catalytic Oxidation of Mixed Volatile Organic Compounds
TITLE:		TITLE:	
STATUS:	Started 8/20/86; Complete 9/21/89	STATUS:	Started 6/20/85; Complete 6/26/88
CONTACT:	AEERL-RTP; C. Darvin	CONTACT:	AEERL-RTP; M. Kosusko
CAS NO:	CL-VOC	CAS NO:	CL-VOC
CHEMICAL:	HAZARDOUS AIR POLLUTANTS, ORGANIC COMPOUNDS	CHEMICAL:	VOLATILE ORGANIC COMPOUNDS
SOURCE:	Furniture Manufacturing	PROJECT TYPE:	Control Technology
PROJECT TYPE:	Control Technology		
CL-BIB-0332	Evaluation of MAP Controls under Transient Conditions		
TITLE:			
STATUS:	Started 6/1/86; Complete 3/1/87		
CONTACT:	AEERL-RTP; J. Crum		
CAS NO:	CL-VOC		
CHEMICAL:	VOLATILE ORGANIC COMPOUNDS		
PROJECT TYPE:	Source Sampling, Ambient Monitoring, Emission Factor		
CL-BIB-0333	Control of Hazardous/Toxic Air Pollutant Emissions: Ufer Board Manufacturing Plant		
TITLE:			
STATUS:	Started 1/20/87; Complete 6/30/87		
CONTACT:	AEERL-RTP; S. Nolan		
CAS NO:	VARIOUS		
CHEMICAL:	HAZARDOUS AIR POLLUTANTS		
SOURCE:	Ufer Board Manufacturing		
PROJECT TYPE:	Source Assessment, Control Technology		
CL-BIB-0334	North West Wood Stove Study		
TITLE:			
STATUS:	Started 11/17/86; Complete 8/18/87		
CONTACT:	AEERL-RTP; R. McGrillis		
CAS NO:	CL-WOOD		
CHEMICAL:	VARIOUS, WOOD SMOKE		
SOURCE:	Wood Stoves		
PROJECT TYPE:	Emission Factor, Source Sampling		

PART 2 - INDEX

TABLE OF CONTENTS TO INDEX

ALPHABETIC TERMS

	Page
ACCIDENT PREVENTION AND/OR EMERGENCY RESPONSE	
PROCEDURES (ER)	55
ACETALDEHYDE (75-07-0)	55
ACETIC ACID, PHENETHYL ESTER (103-45-7)	55
ACROLEIN (107-02-8)	55
ACRYLONITRILE (107-13-1)	55
AGRICULTURAL PRODUCTION-CROPS (01)	55
AGRICULTURAL SERVICES (07)	55
AIR TRANSPORTATION SERVICES (458)	55
AIRPORTS AND FLYING FIELDS (4582)	55
ALDRIN (309-00-2)	55
AMBIENT MONITORING (AM)	55
AMMONIA (7664-41-7)	56
ANTHRACITE MINING (11)	56
ANTHRACITE MINING (111)	56
ANTIMONY (7440-36-0)	56
APPAREL AND OTHER TEXTILE PRODUCTS (23)	56
ARSENIC AND COMPOUNDS AS AS (7440-38-2)	56
ASBESTOS (1332-21-4)	56
ASPHALT (PETROLEUM) FUMES (8052-42-4)	56
AUTOMOTIVE DEALERS & SERVICE STATIONS (55)	56
BENZENE (71-43-2)	56
BENZO(A)PYRENE (50-32-8)	56
BENZOTRIAZOLE, 1,2,3- (95-14-7)	56
BERYLLIUM (7440-41-7)	56
BITUMINOUS COAL AND LIGNITE MINING (12)	57
BITUMINOUS COAL AND LIGNITE MINING (121)	57
BLAST FURNACE AND BASIC STEEL PRODUCTS (331)	57
BLAST FURNACES AND STEEL MILLS (3312)	57
BUSINESS SERVICES (73)	57
BUTADIENE, 1,3- (106-99-0)	57
BUTANONE, 2- (78-93-3)	57
CADMIUM (7440-43-9)	57
CARBON TETRACHLORIDE (56-23-5)	57
CARCINOGENS (CL-CARCIN)	57
CHEMICAL HAZARD INFORMATION PROFILE (CHIP)	57
CHEMICALS AND ALLIED PRODUCTS (28)	57
CHLORDANE (57-74-9)	58
CHLORINE (7782-50-5)	58
CHLOROETHANE (75-00-3)	58
CHLOROFLUOROCARBONS (CL-CFC)	58
CHLOROFLUOROMETHANE (593-70-4)	58
CHLOROFORM (67-66-3)	58
CHROMIUM (7440-47-3)	58

CL-CARCIN (CARCINOGENS).....	58
CL-CFC (CHLOROFLUOROCARBONS).....	58
CL-COE (COKE OVEN EMISSIONS).....	58
CL-DIESEL (DIESEL FUEL EMISSIONS).....	58
CL-DIOXIN (DIOXINS).....	58
CL-HAZWAST (HAZARDOUS WASTES).....	59
CL-IAP (INDOOR AIR POLLUTANTS).....	59
CL-METAL (METALLIC COMPOUNDS).....	59
CL-MINFIB (MINERAL FIBERS).....	59
CL-ORGANIC (ORGANIC COMPOUNDS).....	59
CL-PEST (PESTICIDES).....	59
CL-PHTH (PHTHALATES).....	60
CL-PM (PARTICULATE MATTER).....	60
CL-POM (POLYCYCLIC ORGANIC MATTER).....	60
CL-RESIN (RESINS).....	60
CL-SOLVENT (SOLVENTS).....	60
CL-VOC (VOLATILE ORGANIC COMPOUNDS).....	60
CL-WELD (WELDING FUMES).....	60
CL-WOOD (WOOD SMOKE).....	60
COKE OVEN EMISSIONS (CL-COE).....	60
CONSTRUCTION SAND AND GRAVEL (1442).....	60
CONTROL TECHNOLOGY DOCUMENT (CT).....	61
CROP SERVICES (072).....	61
CURENE (101-14-4).....	61
DIBENZOFURAN (132-64-9).....	61
DIESEL FUEL EMISSIONS (CL-DIESEL).....	61
DIMETHYLAMINE (124-40-3).....	61
DIMETHYLFORMAMIDE,N,N- (68-12-2).....	61
DIOXINS (CL-DIOXIN).....	61
DISINFECTING AND EXTERMINATING (7342).....	62
DISPERSION MODELING (DM).....	62
ELECTRIC, GAS, AND SANITARY SERVICES (49).....	62
EMISSION FACTOR (EF).....	62
ENVIRONMENTAL PROTECTION AGENCY (EPA).....	63
EPA (ENVIRONMENTAL PROTECTION AGENCY).....	67
EPIDEMIOLOGY STUDY (ES).....	67
ETHYLENE DICHLORIDE (107-06-2).....	68
ETHYLENE OXIDE (75-21-8).....	68
ETHYLHEXYLPHTHALATE,BIS,2- (117-81-7).....	68
EXPLOSIVES (2892).....	69
EXPOSURE ASSESSMENT (EA).....	69
FABRICATED METAL PRODUCTS (34).....	69
FABRICATED STRUCTURAL METAL PRODUCTS (344).....	69
FABRICATED PLATE WORK (BOILER SHOPS) (3443).....	69
FIELD CROPS, EXCEPT CASH GRAINS (013).....	69
FOOD AND KINDRED PRODUCTS (20).....	69
FORESTRY (08).....	69
FORMALDEHYDE (50-00-0).....	69
FURNITURE AND FIXTURES (25).....	69
GAS PRODUCTION AND DISTRIBUTION (492).....	69

GAS PRODUCTION AND/OR DISTRIBUTION (4925).....	69
GASOLINE SERVICE STATIONS (554).....	69
GENERAL BUILDING CONTRACTORS (15).....	69
GENERAL MEDICAL & SURGICAL HOSPITALS (8062).....	70
GRAIN MILL PRODUCTS (204).....	70
HAZARDOUS WASTES (CL-HAZWAST).....	70
HEALTH ASSESSMENT (HA).....	70
HEALTH SERVICES (80).....	70
HEAVY CONSTRUCTION CONTRACTORS (16).....	70
HEPTACHLOR (76-44-8).....	70
HOSPITALS (806).....	70
HOUSEHOLD FURNITURE (251).....	71
HOUSEHOLD FURNITURE, NEC (2519).....	71
HYDROGEN CHLORIDE (7647-01-0).....	71
HYDROGEN CYANIDE (74-90-8).....	71
HYDROGEN FLUORIDE (7664-39-3).....	71
HYDROGEN SULFIDE (7783-06-4).....	71
INDOOR AIR (IA).....	71
INDOOR AIR POLLUTANTS (CL-IAP).....	71
INDUSTRIAL INORGANIC CHEMICALS (281).....	71
INDUSTRIAL ORGANIC CHEMICALS (286).....	72
INDUSTRIAL ORGANIC CHEMICALS, NEC (2869).....	72
INORGANIC PIGMENTS (2816).....	72
INSTRUMENTS AND RELATED PRODUCTS (38).....	72
IRON AND STEEL FOUNDRIES (332).....	72
IRON OXIDE (1332-37-2).....	72
IRON OXIDE FUME (1309-37-1).....	72
LAUNDRY, CLEANING, & GARMENT SERVICES (721).....	72
LEAD CHROMATE (7758-97-6).....	72
LUMBER AND WOOD PRODUCTS (24).....	72
MALEIC ANHYDRIDE (108-31-6).....	72
MEDICAL INSTRUMENTS AND SUPPLIES (384).....	72
MERCURIC CHLORIDE (7487-94-7).....	72
METAL MINING (10).....	72
METALLIC COMPOUNDS (CL-METAL).....	72
METHANOL (67-56-1).....	72
METHOXYETHYLETHER, BIS, 2- (111-96-6).....	72
METHYL CARBAMATE (598-55-0).....	72
METHYL ISOCYANATE (624-83-9).....	72
METHYL METHACRYLATE (80-62-6).....	72
METHYLENE CHLORIDE (75-09-2).....	73
METHYLENEDIANILINE, 4,4'- (101-77-9).....	73
MINERAL FIBERS (CL-MINFIB).....	73
MISC. SPECIAL TRADE CONTRACTORS (179).....	73
MISCELLANEOUS CHEMICAL PRODUCTS (289).....	73
MISCELLANEOUS METAL ORES (109).....	73
MISCELLANEOUS NONMETALLIC MINERALS (149).....	73
MISCELLANEOUS REPAIR SERVICES (76).....	73
MISCELLANEOUS REPAIR SHOPS (769).....	73
MISCELLANEOUS WOOD PRODUCTS (249).....	73

MOTOR VEHICLES AND EQUIPMENT (371).....	73
NAPHTHALENE (91-20-3).....	73
NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP).....	73
NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH (NIOSH).....	73
NICKEL POWDER (7440-02-0).....	75
NIOSH (NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH).....	75
NITROGLYCERINE (55-63-0).....	75
NONMETALLIC MINERALS, EXCEPT FUELS (14).....	75
OFFICE FURNITURE (252).....	75
OIL AND GAS EXTRACTION (13).....	75
ORGANIC COMPOUNDS (CL-ORGANIC).....	75
PAPER AND ALLIED PRODUCTS (26).....	76
PAPERBOARD MILLS (263).....	76
PAPERBOARD MILLS (2631).....	76
PARTICULATE MATTER (CL-PM).....	76
PENTACHLOROPHENOL (87-86-5).....	76
PERSONAL SERVICES (72).....	76
PESTICIDES (CL-PEST).....	76
PETROLEUM AND PETROLEUM PRODUCTS (517).....	76
PHENETHYL ALCOHOL (60-12-8).....	76
PHOSGENE (75-44-5).....	76
PHOSPHOROUS (YELLOW) (7723-14-0).....	76
PHTHALATES (CL-PHTH).....	76
PHTHALIC ACID, DI(METHOXYETHYL) ESTER (117-82-8).....	76
PHTHALIC ANHYDRIDE (85-44-9).....	76
PHTHALIMIDE (85-41-6).....	76
PIPERONYL (1893-33-0).....	76
POLYCHLORINATED BIPHENYLS (1336-36-3).....	76
POLYCYCLIC ORGANIC MATTER (CL-POM).....	76
PRE-REGULATORY ASSESSMENT (PRA).....	77
PRIMARY METAL INDUSTRIES (33).....	78
PROPYLENE (115-07-1).....	78
PROPYLENE OXIDE (75-56-9).....	78
PYRENE (129-00-0).....	78
RADON (10043-92-2).....	78
REFUSE SYSTEMS (4953).....	78
REGULATIONS OR RULES (RR).....	79
REGULATORY DEVELOPMENT GUIDANCE (RDG).....	79
RESINS (CL-RESIN).....	79
RISK ASSESSMENT (RA).....	79
SAND AND GRAVEL (144).....	79
SANITARY SERVICES (495).....	79
SANITARY SERVICES, NEC (4959).....	80
SECONDARY NONFERROUS METALS (334).....	80
SELENIUM COMPOUNDS, AS SE (7782-49-2).....	80
SERVICES TO BUILDINGS (734).....	80
SEWERAGE SYSTEMS (4952).....	80

SILICA (7631-86-9).....	80
SODIUM HYDROXIDE (1310-73-2).....	80
SOLVENTS (CL-SOLVENT).....	80
SOURCE ASSESSMENT (SA).....	80
SOURCE SAMPLING (SS).....	81
SPECIAL TRADE CONTRACTORS (17).....	82
SPECIAL TRADE CONTRACTORS, NEC (1799).....	82
STYRENE (100-42-5).....	82
SUGAR CROPS (0133).....	82
SULFURIC ACID (7664-93-9).....	82
TETRACHLORODIBENZODIOXIN, 2,3,7,8-, P- (1746-01-6).....	82
TETRACHLOROETHYLENE (127-18-4).....	82
TEXTILE MILL PRODUCTS (22).....	82
TOLUENE (108-88-3).....	83
TOLUENE DIISOCYANATE (26471-62-5).....	83
TOLUENE, 2,4, DIISOCYANATE (584-84-9).....	83
TOXAPHENE (8001-35-2).....	83
TOXICITY TESTING (TT).....	83
TRANSPORTATION BY AIR (45).....	84
TRANSPORTATION EQUIPMENT (37).....	84
TRICHLOROETHANE, 1,1,1- (71-55-6).....	84
TRICHLOROETHYLENE (79-01-6).....	84
TRICHLOROPHENOL, 2,4,5- (95-95-4).....	84
TRICHLOROTRIFLUOROMETHANE, 1,1,2- (76-13-1).....	84
TRIETHYL PHOSPHATE (78-40-0).....	84
UPHOLSTERED HOUSEHOLD FURNITURE (2512).....	84
URANIUM-RADIUM-VANADIUM ORES (1094).....	84
VANADIUM PENTOXIDE (1314-62-1).....	84
VINYL CHLORIDE (75-01-4).....	84
VOLATILE ORGANIC COMPOUNDS (CL-VOC).....	84
WELDING FUMES (CL-WELD).....	84
WELDING REPAIR (7692).....	84
WHOLESALE TRADE-NONDURABLE GOODS (51).....	85
WOOD HOUSEHOLD FURNITURE (2511).....	85
WOOD OFFICE FURNITURE (2521).....	85
WOOD PRODUCTS, NEC (2499).....	85
WOOD SMOKE (CL-WOOD).....	85
WRECKING AND DEMOLITION WORK (1795).....	85
XYLENE (1330-20-7).....	85
ZINC (7440-66-6).....	85
ZINC OXIDE, FUME (1314-13-2).....	85

NUMERIC TERMS

01 (AGRICULTURAL PRODUCTION-CROPS).....	85
013 (FIELD CROPS, EXCEPT CASH GRAINS).....	85
0133 (SUGAR CROPS).....	85
07 (AGRICULTURAL SERVICES).....	85

072 (CROP SERVICES).....	85
08 (FORESTRY).....	85
10 (METAL MINING).....	85
100-42-5 (STYRENE).....	86
10043-92-2 (RADON).....	86
101-14-4 (CURENE).....	86
101-77-9 (METHYLENEDIANILINE,4,4'-).....	86
103-45-7 (ACETIC ACID, PHENETHYL ESTER).....	86
106-99-0 (BUTADIENE,1,3-).....	86
107-02-8 (ACROLEIN).....	86
107-06-2 (ETHYLENE DICHLORIDE).....	86
107-13-1 (ACRYLONITRILE).....	86
108-31-6 (MALEIC ANHYDRIDE).....	86
108-88-3 (TOLUENE).....	86
109 (MISCELLANEOUS METAL ORES).....	86
1094 (URANIUM-RADIUM-VANADIUM ORES).....	86
11 (ANTHRACITE MINING).....	86
111 (ANTHRACITE MINING).....	87
111-96-6 (METHOXYETHYLETHER,BIS,2-).....	87
115-07-1 (PROPYLENE).....	87
117-81-7 (ETHYLHEXYLPHTHALATE,BIS,2-).....	87
117-82-8 (PHTHALIC ACID, DI(METHOXYETHYL) ESTER).....	87
12 (BITUMINOUS COAL AND LIGNITE MINING).....	87
121 (BITUMINOUS COAL AND LIGNITE MINING).....	87
124-40-3 (DIMETHYLAMINE).....	87
127-18-4 (TETRACHLOROETHYLENE).....	87
129-00-0 (PYRENE).....	87
13 (OIL AND GAS EXTRACTION).....	87
1309-37-1 (IRON OXIDE FUME).....	87
1310-73-2 (SODIUM HYDROXIDE).....	87
1314-13-2 (ZINC OXIDE, FUME).....	87
1314-62-1 (VANADIUM PENTOXIDE).....	87
132-64-9 (DIBENZOFURAN).....	87
1330-20-7 (XYLENE).....	87
1332-21-4 (ASBESTOS).....	87
1332-37-2 (IRON OXIDE).....	88
1336-36-3 (POLYCHLORINATED BIPHENYLS).....	88
14 (NONMETALLIC MINERALS, EXCEPT FUELS).....	88
144 (SAND AND GRAVEL).....	88
1442 (CONSTRUCTION SAND AND GRAVEL).....	88
149 (MISCELLANEOUS NONMETALLIC MINERALS).....	88
15 (GENERAL BUILDING CONTRACTORS).....	88
16 (HEAVY CONSTRUCTION CONTRACTORS).....	88
17 (SPECIAL TRADE CONTRACTORS).....	88
1746-01-6 (TETRACHLORODIBENZODIOXIN,2,3,7,8-,P-).....	88
179 (MISC. SPECIAL TRADE CONTRACTORS).....	88
1795 (WRECKING AND DEMOLITION WORK).....	88
1799 (SPECIAL TRADE CONTRACTORS, NEC).....	88
1893-33-0 (PIPERONYL).....	88
20 (FOOD AND KINDRED PRODUCTS).....	88

204 (GRAIN MILL PRODUCTS).....	88
22 (TEXTILE MILL PRODUCTS).....	88
23 (APPAREL AND OTHER TEXTILE PRODUCTS).....	89
24 (LUMBER AND WOOD PRODUCTS).....	89
249 (MISCELLANEOUS WOOD PRODUCTS).....	89
2499 (WOOD PRODUCTS, NEC).....	89
25 (FURNITURE AND FIXTURES).....	89
251 (HOUSEHOLD FURNITURE).....	89
2511 (WOOD HOUSEHOLD FURNITURE).....	89
2512 (UPHOLSTERED HOUSEHOLD FURNITURE).....	89
2519 (HOUSEHOLD FURNITURE, NEC).....	89
252 (OFFICE FURNITURE).....	89
2521 (WOOD OFFICE FURNITURE).....	89
26 (PAPER AND ALLIED PRODUCTS).....	89
263 (PAPERBOARD MILLS).....	89
2631 (PAPERBOARD MILLS).....	89
26471-62-5 (TOLUENE DIISOCYANATE).....	89
28 (CHEMICALS AND ALLIED PRODUCTS).....	89
281 (INDUSTRIAL INORGANIC CHEMICALS).....	89
2816 (INORGANIC PIGMENTS).....	89
286 (INDUSTRIAL ORGANIC CHEMICALS).....	89
2869 (INDUSTRIAL ORGANIC CHEMICALS, NEC).....	89
289 (MISCELLANEOUS CHEMICAL PRODUCTS).....	90
2892 (EXPLOSIVES).....	90
309-00-2 (ALDRIN).....	90
33 (PRIMARY METAL INDUSTRIES).....	90
331 (BLAST FURNACE AND BASIC STEEL PRODUCTS).....	90
3312 (BLAST FURNACES AND STEEL MILLS).....	90
332 (IRON AND STEEL FOUNDRIES).....	90
334 (SECONDARY NONFERROUS METALS).....	90
34 (FABRICATED METAL PRODUCTS).....	90
344 (FABRICATED STRUCTURAL METAL PRODUCTS).....	90
3443 (FABRICATED PLATE WORK (BOILER SHOPS)).....	90
37 (TRANSPORTATION EQUIPMENT).....	90
371 (MOTOR VEHICLES AND EQUIPMENT).....	90
38 (INSTRUMENTS AND RELATED PRODUCTS).....	90
384 (MEDICAL INSTRUMENTS AND SUPPLIES).....	90
45 (TRANSPORTATION BY AIR).....	90
458 (AIR TRANSPORTATION SERVICES).....	90
4582 (AIRPORTS AND FLYING FIELDS).....	91
49 (ELECTRIC, GAS, AND SANITARY SERVICES).....	91
492 (GAS PRODUCTION AND DISTRIBUTION).....	91
4925 (GAS PRODUCTION AND/OR DISTRIBUTION).....	91
495 (SANITARY SERVICES).....	91
4952 (SEWERAGE SYSTEMS).....	92
4953 (REFUSE SYSTEMS).....	92
4959 (SANITARY SERVICES, NEC).....	92
50-00-0 (FORMALDEHYDE).....	92
50-32-8 (BENZO(A)PYRENE).....	92
51 (WHOLESALE TRADE-NONDURABLE GOODS).....	92

517 (PETROLEUM AND PETROLEUM PRODUCTS).....	92
55 (AUTOMOTIVE DEALERS & SERVICE STATIONS).....	92
55-63-0 (NITROGLYCERINE).....	92
554 (GASOLINE SERVICE STATIONS).....	92
56-23-5 (CARBON TETRACHLORIDE).....	92
57-74-9 (CHLORDANE).....	93
584-84-9 (TOLUENE, 24, DIISOCYANATE).....	93
593-70-4 (CHLOROFLUOROMETHANE).....	93
598-55-0 (METHYL CARBAMATE).....	93
60-12-8 (PHENETHYL ALCOHOL).....	93
624-83-9 (METHYL ISOCYANATE).....	93
67-56-1 (METHANOL).....	93
67-66-3 (CHLOROFORM).....	93
68-12-2 (DIMETHYLFORMAMIDE, N,N-).....	93
71-43-2 (BENZENE).....	93
71-55-6 (TRICHLOROETHANE, 1,1,1-).....	93
72 (PERSONAL SERVICES).....	93
721 (LAUNDRY, CLEANING, & GARMENT SERVICES).....	93
73 (BUSINESS SERVICES).....	93
734 (SERVICES TO BUILDINGS).....	93
7342 (DISINFECTING AND EXTERMINATING).....	93
74-90-8 (HYDROGEN CYANIDE).....	93
7440-02-0 (NICKEL POWDER).....	93
7440-36-0 (ANTIMONY).....	93
7440-38-2 (ARSENIC AND COMPOUNDS AS AS).....	93
7440-41-7 (BERYLLIUM).....	93
7440-43-9 (CADMIUM).....	93
7440-47-3 (CHROMIUM).....	94
7440-66-6 (ZINC).....	94
7487-94-7 (MERCURIC CHLORIDE).....	94
75-00-3 (CHLOROETHANE).....	94
75-01-4 (VINYL CHLORIDE).....	94
75-07-0 (ACETALDEHYDE).....	94
75-09-2 (METHYLENE CHLORIDE).....	94
75-21-8 (ETHYLENE OXIDE).....	94
75-44-5 (PHOSGENE).....	94
75-56-9 (PROPYLENE OXIDE).....	94
76 (MISCELLANEOUS REPAIR SERVICES).....	94
76-13-1 (TRICHLOROTRIFLUOROMETHANE, 1,1,2-).....	94
76-44-8 (HEPTACHLOR).....	95
7631-86-9 (SILICA).....	95
7647-01-0 (HYDROGEN CHLORIDE).....	95
7664-39-3 (HYDROGEN FLUORIDE).....	95
7664-41-7 (AMMONIA).....	95
7664-93-9 (SULFURIC ACID).....	95
769 (MISCELLANEOUS REPAIR SHOPS).....	95
7692 (WELDING REPAIR).....	95
7723-14-0 (PHOSPHOROUS (YELLOW)).....	95
7758-97-6 (LEAD CHROMATE).....	95
7782-49-2 (SELENIUM COMPOUNDS, AS SE).....	95

7782-50-5 (CHLORINE).....	95
7783-06-4 (HYDROGEN SULFIDE).....	95
78-40-0 (TRIETHYL PHOSPHATE).....	95
78-93-3 (BUTANONE, 2-).....	96
79-01-6 (TRICHLOROETHYLENE).....	96
80 (HEALTH SERVICES).....	96
80-62-6 (METHYL METHACRYLATE).....	96
8001-35-2 (TOXAPHENE).....	96
8052-42-4 (ASPHALT (PETROLEUM) FUMES).....	96
806 (HOSPITALS).....	96
8062 (GENERAL MEDICAL & SURGICAL HOSPITALS).....	96
85-41-6 (PHTHALIMIDE).....	96
85-44-9 (PHTHALIC ANHYDRIDE).....	96
87-86-5 (PENTACHLOROPHENOL).....	96
91-20-3 (NAPHTHALENE).....	96
95-14-7 (BENZOTRIAZOLE, 1, 2, 3-).....	96
95-95-4 (TRICHLOROPHENOL, 2, 4, 5-).....	96

PROJECT ENTRY INDEX

ALPHABETIC TERMS

ACCIDENT PREVENTION AND/OR EMERGENCY RESPONSE PROCEDURES (ER)

- Chemical-Specific Manuals for Accidental Releases and Hazard Identification Systems (CL-BIB-0320)
- Air Toxic Accidental Release Prevention Reference Manual - Mitigation Technology (CL-BIB-0321)

ACETALDEHYDE (75-07-0)

- Decision on Regulation of Acetaldehyde Under The Clean Air Act (CL-BIB-0034)
- Health Assessment Document for Acetaldehyde, External Review (CL-BIB-0061)
- Acetaldehyde Preliminary Source Assessment (CL-BIB-0256)

ACETIC ACID, PHENETHYL ESTER (103-45-7)

- Information Gathering and Risk Analysis of Existing Data on Phenylethanol Acetate (CL-BIB-0078)

ACROLEIN (107-02-8)

- Decision on Regulation of Acrolein Under the Clean Air Act (CL-BIB-0035)
- Health Assessment Document for Acrolein (CL-BIB-0059)
- Acrolein Preliminary Source Assessment (CL-BIB-0254)

ACRYLONITRILE (107-13-1)

- EPA-State Pilot Project For the Control of Acrylonitrile Emissions (CL-BIB-0027)

AGRICULTURAL PRODUCTION-CROPS (01)

- Pesticide Impact Study from Field and Slash Burning (CL-BIB-0159)
- Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho (CL-BIB-0296)

AGRICULTURAL SERVICES (07)

- Pesticide Impact Study from Field and Slash Burning (CL-BIB-0159)
- A Study of Worker Exposure to Grain Fumigants (CL-BIB-0269)
- Occupational Exposure During Sugar Cane Harvesting (CL-BIB-0250)

AIR TRANSPORTATION SERVICES (458)

- Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data (CL-BIB-0294)

AIRPORTS AND FLYING FIELDS (4582)

- Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data (CL-BIB-0294)

ALDRIN (309-00-2)

- Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient (CL-BIB-0301)

AMBIENT MONITORING (AM)

- Report on Advances in Analytical Methods for Identification and Quantitation of Organic Compounds in Air (CL-BIB-0097)
- Atmospheric Measurements of Trace Hazardous Organic Chemicals (CL-BIB-0103)
- Hazardous Air Pollutants in the Urban Environment (CL-BIB-0104)
- Update of a Data Base on VOC in the Atmosphere (CL-BIB-0106)
- Identify and Evaluate Toxic Components of Air Pollution (CL-BIB-0111)
- CO2 Laser Photoacoustic Toxic Vapor Monitoring (CL-BIB-0132)
- Toxics Air Monitoring Systems (TAMS) (CL-BIB-0206)
- Analytical Methods Development for Toxic Substances (CL-BIB-0287)
- Development Ambient Methods for Hazardous Waste (CL-BIB-0288)
- Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data (CL-BIB-0294)
- Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho (CL-BIB-0296)
- Ambient Air Monitoring for PCBs in El Dorado, Arkansas (CL-BIB-0299)
- Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient (CL-BIB-0300)

AMBIENT MONITORING (AM) (continued)

Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient

Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient

Evaluation of MAP Controls under Transient Conditions

AMMONIA (7664-41-7)

Decision on Regulation of Ammonia Under the Clean Air Act (CL-818-0301)

Source Test Methods for Ammonia and Chlorine

ANTHRACITE MINING (11)

National Occupational Health Survey of Mining Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions (CL-818-0198)

Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners (CL-818-0205)

National Coal Study and Coal Worker Surveillance

Comparative Research in Analytical Pathology

Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-818-0217)

Alveolar Type II Cells; Effect of Silica

ANTHRACITE MINING (11)

Comparative Research in Analytical Pathology

ANTIMONY (7440-36-0)

Cohort Mortality Study of Antimony Smelter Workers

APPAREL AND OTHER TEXTILE PRODUCTS (23)

Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment (CL-818-0120)

ARSENIC AND COMPOUNDS AS AS (7440-38-2)

Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel from Coal and Oil Combustion (CL-818-0029)

ASBESTOS (1332-21-4)

Asbestos WESNAP Revision

Evaluation of Mesothelioma Production by Asbestos Substitutes (CL-818-0162)

Study of Workers in the Dusty Trades in North Carolina - HCl (CL-818-0207)

Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-818-0217)

Development of Short Term Assays to Predict Dust-Induced Lung Disease (CL-818-0305)

Evaluation of Mesothelioma Production by Asbestos Substitutes (CL-818-0306)

ASPHALT (PETROLEUM) FUMES (8052-42-4)

Assessment of Cocarcinogenic Activity of Asphalt Fumes (CL-818-0174)

AUTOMOTIVE DEALERS & SERVICE STATIONS (55)

Organic Solvent Cleaning WESNAP

Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments (CL-818-0028)

BENZENE (71-43-2)

Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments (CL-818-0028)

Update of Completed Cohort Mortality Studies - HCl (CL-818-0227)

Locating and Estimating Air Emissions from Sources of Benzene (CL-818-0262)

BENZO(A)PYRENE (50-32-8)

Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-818-0217)

BENZOTRIAZOLE, 1,2,3- (95-14-7)

Chemical Hazard Information Profile for Benzotriazol-Based UV Light

BERYLLIUM (7440-41-7)

Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel from Coal and Oil Combustion (CL-818-0029)

Health Assessment Document for Beryllium, External Review (CL-818-0057)

<u>BERYLLIUM (7440-41-7) (continued)</u>	
Beryllium Retrospective Cohort Investigation - MCI	(CL-B18-0229)
<u>BITUMINOUS COAL AND LIGNITE MINING (12)</u>	
National Occupational Health Survey of Mining	(CL-B18-0198)
Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions	(CL-B18-0201)
Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners	(CL-B18-0205)
National Coal Study and Coal Worker Surveillance	(CL-B18-0206)
Comparative Research in Analytical Pathology	(CL-B18-0216)
Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms	(CL-B18-0217)
Alveolar Type II Cells; Effect of Silica	(CL-B18-0218)
<u>BITUMINOUS COAL AND LIGNITE MINING (12)</u>	
Comparative Research in Analytical Pathology	(CL-B18-0216)
<u>BLAST FURNACE AND BASIC STEEL PRODUCTS (33)</u>	
Coke Oven Emissions: Charging, Topside Leaks, Door Leaks WESHAP	(CL-B18-0012)
Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-B18-0202)
Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-B18-0240)
Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills	(CL-B18-0241)
Mortality of Sulfuric Acid Exposed Workers	(CL-B18-0246)
<u>BLAST FURNACES AND STEEL MILLS (33)</u>	
Coke Oven Emissions: Charging, Topside Leaks, Door Leaks WESHAP	(CL-B18-0012)
<u>BUSINESS SERVICES (73)</u>	
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers	(CL-B18-0153)
<u>BUTADIENE, 1,3- (106-99-0) (continued)</u>	
Update of Completed Cohort Mortality Studies - MCI	(CL-B18-0227)
Exposure to Butadiene in the Industrial Environment	(CL-B18-0234)
<u>BUTADIENE, 1,3- (106-99-0) (continued)</u>	
Hazardous Organic WESHAP	(CL-B18-0261)
<u>BUTANONE, 2- (78-93-3)</u>	
Development and Evaluation of Biomonitoring Methods for Methyl Ethyl Ketone	(CL-B18-0164)
<u>CADMIUM (7440-43-9)</u>	
Cadmium WESHAP	(CL-B18-0010)
Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion	(CL-B18-0029)
Neurotoxicity from Exposure to Heavy Metals	(CL-B18-0168)
Update of Completed Cohort Mortality Studies - MCI	(CL-B18-0227)
<u>CARBON TETRACHLORIDE (56-23-5)</u>	
Hazardous Organic WESHAP	(CL-B18-0261)
<u>CARCINOGENS (CL-CARCIN)</u>	
Integrated Air Cancer Project	(CL-B18-0115)
In Vitro Tests for Workplace Carcinogens	(CL-B18-0182)
Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data	(CL-B18-0294)
<u>CHEMICAL HAZARD INFORMATION PROFILE (CHIP)</u>	
Chemical Hazard Information Profile for Methyl Carbamate	(CL-B18-0283)
Chemical Hazard Information Profile for Benzotriazol-Based UV Light	(CL-B18-0284)
Chemical Hazard Information Profile for Piperonyl-Based UV Light Stabilizers	(CL-B18-0285)
<u>CHEMICALS AND ALLIED PRODUCTS (28)</u>	
Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-B18-0120)
Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes	(CL-B18-0148)
Temporal Factors Influencing Carcinogenicity of Industrial Chemicals	(CL-B18-0190)
Mortality Study of Chemical Plants in Kanawha Valley, West Virginia	(CL-B18-0221)

<u>CHEMICALS AND ALLIED PRODUCTS (28) (continued)</u>	
Exposure to Butadiene in the Industrial Environment	(CL-818-0234)
Morbidity and Mortality Study of Workers Exposed to Nitroglycerin	(CL-818-0247)
Phosgene Preliminary Source Assessment	(CL-818-0255)
<u>CHLORDANE (57-74-9)</u>	
Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient	(CL-818-0302)
<u>CHLORINE (7782-50-5)</u>	
Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act	(CL-818-0037)
Source Test Methods for Ammonia and Chlorine	(CL-818-0084)
Health Assessment Document for Chlorine & Hydrogen Chloride, External Review	(CL-818-0280)
<u>CHLOROETHANE (75-00-3)</u>	
Decision on Regulation of Ethyl Chloride Under the Clean Air Act	(CL-818-0268)
<u>CHLOROFLUOROCARBONS (CL-CFC)</u>	
Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1	(CL-818-0319)
Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2	(CL-818-0323)
CFC Chemical Substitutes	(CL-818-0324)
<u>CHLOROFLUOROMETHANE (593-70-4)</u>	
Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1	(CL-818-0319)
Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2	(CL-818-0323)
CFC Chemical Substitutes	(CL-818-0324)
<u>CHLOROFORM (67-66-3)</u>	
Hazardous Organic NESMAP	(CL-818-0261)
<u>CHROMIUM (7440-47-3)</u>	
Chromium NESMAP	(CL-818-0020)
<u>CHROMIUM (7440-47-3) (continued)</u>	
Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion	(CL-818-0029)
Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes	(CL-818-0148)
Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI	(CL-818-0228)
Chromium Project for Industrial Cooling Towers	(CL-818-0260)
Health Assessment for Chromium, Update	(CL-818-0279)
<u>CL-CARCIN (CARCINOGENS)</u>	
Integrated Air Cancer Project	(CL-818-0115)
In Vitro Tests for Workplace Carcinogens	(CL-818-0182)
Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data	(CL-818-0294)
<u>CL-CFC (CHLOROFLUOROCARBONS)</u>	
Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1	(CL-818-0319)
Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2	(CL-818-0323)
CFC Chemical Substitutes	(CL-818-0324)
<u>CL-COE (COKE OVEN EMISSIONS)</u>	
Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESMAP	(CL-818-0012)
<u>CL-DIESEL (DIESEL FUEL EMISSIONS)</u>	
Occupational Lung Disease Associated with Exposure to Diesel Emissions	(CL-818-0193)
Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions	(CL-818-0201)
Mortality of Diesel Exposed Miners	(CL-818-0213)
Study of Lung Cancer Mortality Among Teamsters	(CL-818-0242)
<u>CL-DIOXIN (DIOXINS)</u>	
Validate an Emission Test Method for Dioxins	(CL-818-0082)

<u>CL-DIOXIN (DIOXINS) (continued)</u>	
New York State Stack Sampling of Resource Recovery Plants (CL-B1B-0146)	
Mortality of Dioxin Workers (CL-B1B-0226)	
Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin (CL-B1B-0236)	
Dioxin Analysis of Hospital Incinerator Ash (CL-B1B-0292)	
<u>CL-HAZWAST (HAZARDOUS WASTES)</u> Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities (CL-B1B-0030)	
List of Superfund Hazardous Waste Sites with Air Contamination Problems (CL-B1B-0054)	
Potential for Air Releases From CERCLA Sites (CL-B1B-0055)	
Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System (CL-B1B-0137)	
Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility (CL-B1B-0138)	
Field Assessment of Steam VOC Removal Efficiencies (CL-B1B-0140)	
Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities (CL-B1B-0141)	
Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-B1B-0142)	
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water (CL-B1B-0143)	
Engineering Study: Standards Development for Hazardous Waste (CL-B1B-0257)	
Development Ambient Methods for Hazardous Waste (CL-B1B-0288)	
Develop Source Methods for Hazardous Waste (CL-B1B-0289)	
POMC and PIC Screening (CL-B1B-0322)	
<u>CL-IAP (INDOOR AIR POLLUTANTS)</u> Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action (CL-B1B-0199)	
Epidemiologic Environmental Study - Office Workers (CL-B1B-0211)	
Indoor Air Quality Research (CL-B1B-0290)	
Chamber Studies Characterizing Emissions from Unvented Combustion Sources (CL-B1B-0326)	
<u>CL-METAL (METALLIC COMPOUNDS)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion (CL-B1B-0029)	
New York State Stack Sampling of Resource Recovery Plants (CL-B1B-0146)	
Neurotoxicity from Exposure to Heavy Metals (CL-B1B-0168)	
<u>CL-MINFIB (MINERAL FIBERS)</u> Development of Short Term Assays to Predict Dust-Induced Lung Disease (CL-B1B-0305)	
Pulmonary Response to Inhaled Fibrogenic Minerals (CL-B1B-0308)	
<u>CL-ORGANIC (ORGANIC COMPOUNDS)</u> Report on Advances in Analytical Methods for Identification and Quantitation of Organic Compounds in Air (CL-B1B-0097)	
Atmospheric Measurements of Trace Hazardous Organic Chemicals (CL-B1B-0103)	
Evaluate the Contribution of Source Emissions to Cancer Risk (CL-B1B-0113)	
Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-B1B-0142)	
Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action (CL-B1B-0199)	
Mortality Study of Workers Exposed to Chlorinated Naphthalenes (CL-B1B-0238)	
Assessment of Potential Emissions from Wafer Board Manufacturing Plants (CL-B1B-0258)	
<u>CL-PEST (PESTICIDES)</u> Final Report of the Pesticide Total Exposure Study (CL-B1B-0101)	

<u>CL-PEST (PESTICIDES) (continued)</u>	
Application of Total Exposure Assessment Methodology to the Study of Public Exposure to Pesticides in an Urban Area	(CL-818-0102)
Pesticide Impact Study from Field and Slash Burning	(CL-818-0159)
Update of Completed Cohort Mortality Studies - MCI	(CL-818-0227)
<u>CL-PHTH (PHTHALATES)</u>	
Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters	(CL-818-0076)
<u>CL-PM (PARTICULATE MATTER)</u>	
Pesticide Impact Study from Field and Slash Burning	(CL-818-0159)
Analytical Methods Development for Toxic Substances	(CL-818-0287)
<u>CL-POM (POLYCYCLIC ORGANIC MATTER)</u>	
Pesticide Impact Study from Field and Slash Burning	(CL-818-0159)
Occupational Exposure During Sugar Cane Harvesting	(CL-818-0250)
Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (POM)	(CL-818-0263)
<u>CL-RESIN (RESINS)</u>	
Assessment of Potential Emissions from Wafer Board Manufacturing Plants	(CL-818-0258)
<u>CL-SOLVENT (SOLVENTS)</u>	
Behavioral Teratology of Alcohol Solvents	(CL-818-0165)
Neurotoxicity of Aliphatic Carbon Solvents	(CL-818-0166)
<u>CL-VOC (VOLATILE ORGANIC COMPOUNDS)</u>	
Organic Solvent Cleaning NESHAP	(CL-818-0014)
Update of a Data Base on VOC in the Atmosphere	(CL-818-0106)
Destruction of VOC/HAP Emissions via Catalytic Incineration	(CL-818-0116)
Field Assessment of Steam VOC Removal Efficiencies	(CL-818-0140)
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water	(CL-818-0143)
Toxics Air Monitoring Systems (TAMS)	(CL-818-0286)
<u>CL-VOC (VOLATILE ORGANIC COMPOUNDS) (continued)</u>	
Toxics and VOC Research Program Priority Development	(CL-818-0328)
Development of Ultraviolet Curing for Furniture Finishers	(CL-818-0331)
Evaluation of HAP Controls under Transient Conditions	(CL-818-0332)
VOC and HAP Control of Department of Defense Facilities	(CL-818-0335)
Vapor Phase Catalytic Oxidation of Mixed Volatile Organic Compounds	(CL-818-0337)
<u>CL-WELD (WELDING FUMES)</u>	
Morbidity and Industrial Hygiene Study Of Mild Steel Welders	(CL-818-0202)
Prospective Study of Welders of Mild Steel	(CL-818-0212)
Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-818-0240)
<u>CL-WOOD (WOOD SMOKE)</u>	
Integrated Air Cancer Project: Wood Stove Operating Profiles	(CL-818-0128)
Analytical Methods Development for Toxic Substances	(CL-818-0287)
Catalytic Wood Stove Field Performance and Emission Monitoring	(CL-818-0325)
Determining Wood Stove Catalyst Emission Control Performance Degradation	(CL-818-0329)
Study of the Effects of Appliance Type and Operating Variables on Residential Wood Combustion Emissions	(CL-818-0330)
North West Wood Stove Study	(CL-818-0334)
<u>COKE OVEN EMISSIONS (CL-COE)</u>	
Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP	(CL-818-0012)
<u>CONSTRUCTION SAND AND GRAVEL (1442)</u>	
Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis	(CL-818-0309)

CONTROL TECHNOLOGY DOCUMENT (CT)

Study to Define and Determine Mitigation Methods for Air Pollution in Puget Sound

Ambient Air Monitoring in Portland, Oregon (Urban Soup)

Clinton, New Jersey Radon Mitigation Follow-up and Long-term Testing

Demonstration of Mitigative Techniques in Existing Houses and New House Construction Techniques to Control Indoor Radon Exposure

Development and Demonstration of Indoor Radon Reduction Measures for Homes

Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques

Development and Demonstration of Indoor Radon Reduction Measure for up to Ten Homes in New Jersey

Evaluate Radon Mitigation Systems Installed by Local Contractors and Individual Homeowners in Clinton, N. J.

Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II

Investigation of Radon Entry into Houses and Effectiveness of Mitigation Techniques - Evaluation Phase

Development and Demonstration of Indoor Radon Reduction Measures for Homes

Air Toxic Accidental Release Prevention Reference Manual - Mitigation Technology

CFC Chemical Substitutes

Determining Wood Stove Catalyst Emission Control Performance Degradation

Study of the Effects of Appliance Type and Operating Variables on Residential Wood Combustion Emissions

CONTROL TECHNOLOGY DOCUMENT (CT) (continued)

Development of Ultraviolet Curing for Furniture Finishers (CL-B1B-0331)

Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant (CL-B1B-0333)

VOC and MAP Control of Department of Defense Facilities (CL-B1B-0335)

Vapor Phase Catalytic Oxidation of Mixed Volatile Organic Compounds (CL-B1B-0337)

CROP SERVICES (072)
A Study of Worker Exposure to Grain Fumigants (CL-B1B-0249)

Occupational Exposure During Sugar Cane Harvesting (CL-B1B-0250)

CURENE (101-14-4)
Investigation of Workers Exposed to MOCA (CL-B1B-0225)

Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-B1B-0232)

Arylamine Adducts in Blood as Indicators of Exposure (CL-B1B-0304)

DIBENZOFURAN (132-64-9)
Health Assessment Document for Dibenzofurans (CL-B1B-0064)

DIESEL FUEL EMISSIONS (CL-DIESEL)
Occupational Lung Disease Associated with Exposure to Diesel Emissions (CL-B1B-0193)

Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions (CL-B1B-0201)

Mortality of Diesel Exposed Miners (CL-B1B-0213)

Study of Lung Cancer Mortality Among Teamsters (CL-B1B-0242)

DIMETHYLAMINE (124-40-3)
Decision on Regulation of Dimethylamine Under the Clean Air Act (CL-B1B-0269)

DIMETHYLFORMAMIDE, N,N- (68-12-2)
Dimethylformamide- NTP Chemical Manager (CL-B1B-0186)

DIOXINS (CL-DIOXIN)
Validate an Emission Test Method for Dioxins (CL-B1B-0082)

<u>DIOXINS (CL-DIOXIN) (continued)</u> New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)	<u>ELECTRIC, GAS, AND SANITARY SERVICES (49) (continued)</u> Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants (CL-BIB-0145)
Mortality of Dioxin Workers (CL-BIB-0226)	New York State Stack Sampling of Resource Recovery Plants (CL-BIB-0146)
Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin (CL-BIB-0236)	Municipal Waste Combustion Study (CL-BIB-0266)
Dioxin Analysis of Hospital Incinerator Ash (CL-BIB-0292)	Dioxin Analysis of Hospital Incinerator Ash (CL-BIB-0292)
<u>DISINFECTING AND EXTERMINATING (7342)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)	The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility (CL-BIB-0293)
<u>DISPERSION MODELING (DM)</u> Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data (CL-BIB-0294)	Estimation of Hazardous Air Emissions in Southeast Chicago from TSOE (CL-BIB-0295)
<u>ELECTRIC, GAS, AND SANITARY SERVICES (49)</u> Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities (CL-BIB-0030)	Ambient Air Monitoring for PCBs in El Dorado, Arkansas (CL-BIB-0299)
List of Superfund Hazardous Waste Sites with Air Contamination Problems (CL-BIB-0054)	<u>EMISSION FACTOR (EF)</u> Locating and Estimating Air Emissions From Sources of Polychlorinated Biphenyls (PCB) (CL-BIB-0023)
Potential for Air Releases from CERCLA Sites (CL-BIB-0055)	Destruction of VOC/HAP Emissions via Catalytic Incineration (CL-BIB-0116)
Evaluate the Contribution of Source Emissions to Cancer Risk (CL-BIB-0113)	Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-BIB-0153)
Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System (CL-BIB-0137)	Locating and Estimating Air Emissions from Sources of Benzene (CL-BIB-0262)
Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility (CL-BIB-0138)	Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (POM) (CL-BIB-0263)
Field Assessment of Steam VOC Removal Efficiencies (CL-BIB-0140)	POHC and PIC Screening (CL-BIB-0322)
Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities (CL-BIB-0141)	Catalytic Wood Stove Field Performance and Emission Monitoring (CL-BIB-0325)
Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-BIB-0142)	Chamber Studies Characterizing Emissions from Unvented Combustion Sources (CL-BIB-0326)
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water (CL-BIB-0143)	Toxics and VOC Research Program Priority Development (CL-BIB-0328)
	Determining Wood Stove Catalyst Emission Control Performance Degradation (CL-BIB-0329)

<u>EMISSION FACTOR (EF) (continued)</u>	
Study of the Effects of Appliance Type and Operating Variables on Residential Wood Combustion Emissions	(CL-B1B-0330)
Evaluation of HAP Controls under Transient Conditions	(CL-B1B-0332)
North West Wood Stove Study	(CL-B1B-0334)
<u>ENVIRONMENTAL PROTECTION AGENCY (EPA)</u>	
<u>Cadmium NESHAP</u>	
Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP	(CL-B1B-0010)
Organic Solvent Cleaning NESHAP	(CL-B1B-0014)
Asbestos NESHAP Revision	(CL-B1B-0018)
Chromium NESHAP	(CL-B1B-0020)
Locating and Estimating Air Emissions From Sources of Polychlorinated Biphenyls (PCB)	(CL-B1B-0023)
EPA-State Pilot Project for the Control of Acrylonitrile Emissions	(CL-B1B-0027)
Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments	(CL-B1B-0028)
Estimating Exposure to Arsenic, Beryllium, Cadmium, and Nickel From Coal and Oil Combustion	(CL-B1B-0029)
Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities	(CL-B1B-0030)
Decision on Regulation of Acetaldehyde Under The Clean Air Act	(CL-B1B-0034)
Decision on Regulation of Acrolein Under the Clean Air Act	(CL-B1B-0035)
Decision on Regulation of Ammonia Under the Clean Air Act	(CL-B1B-0036)
Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act	(CL-B1B-0037)
Decision on Regulation of Formaldehyde Under the Clean Air Act	(CL-B1B-0040)
<u>ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)</u>	
Decision on Regulation of Gasoline Vapors Under the Clean Air Act	(CL-B1B-0041)
Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act	(CL-B1B-0042)
Decision on Regulation of Mineral Fibers Under the Clean Air Act	(CL-B1B-0043)
Decision on Regulation of Naphthalene Under the Clean Air Act	(CL-B1B-0044)
Decision on Regulation of Phosgene Under the Clean Air Act	(CL-B1B-0046)
Decision on Regulation of Propylene Oxide and Propylene Under the Clean Air Act	(CL-B1B-0048)
Decision on Regulation of Styrene Under the Clean Air Act	(CL-B1B-0049)
Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act	(CL-B1B-0050)
Decision on Regulation of Methyl Isocyanate Under the Clean Air Act	(CL-B1B-0051)
Decision on Regulation of Xylene Under the Clean Air Act	(CL-B1B-0052)
Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act	(CL-B1B-0053)
List of Superfund Hazardous Waste Sites with Air Contamination Problems	(CL-B1B-0054)
Potential for Air Releases From CERCLA Sites	(CL-B1B-0055)
Health Assessment Document for Beryllium, External Review	(CL-B1B-0057)
Health Assessment Document for Acrolein	(CL-B1B-0059)
Health Assessment Document for Acetaldehyde, External Review	(CL-B1B-0061)
Health Assessment Document for Hydrogen Sulfide, External Review	(CL-B1B-0062)

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

Health Assessment Document for Phosgene, External Review

(CL-BIB-0063)

Health Assessment Document for Dibenzofurans

(CL-BIB-0064)

Evaluation of Methods to Estimate Absorbed Doses of Inhaled Oxidants

(CL-BIB-0069)

Risk Analysis of Existing Data on Triethyl Phosphate

(CL-BIB-0075)

Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters

(CL-BIB-0076)

Information Gathering and Risk Analysis of Existing Data on Phenylethanol

(CL-BIB-0077)

Information Gathering and Risk Analysis of Existing Data on Phenylethanol Acetate

(CL-BIB-0078)

Risk Analysis of Existing Data on Phthalimide

(CL-BIB-0079)

Develop Sampling Methods for Speciated Nickel

(CL-BIB-0081)

Validate an Emission Test Method for Dioxins

(CL-BIB-0082)

Source Test Methods for Ammonia and Chlorine

(CL-BIB-0084)

Report on Development of New Sampling and Analysis Techniques for Ambient Hazardous Air Pollutants (HAP)

(CL-BIB-0087)

Model of Human Exposures Inside Vehicles on Highways

(CL-BIB-0096)

Report on Advances in Analytical Methods for Identification and Quantitation of Organic Compounds in Air

(CL-BIB-0097)

Final Report of the Pesticide Total Exposure Study

(CL-BIB-0101)

Application of Total Exposure Assessment Methodology to the Study of Public Exposure to Pesticides in an Urban Area

(CL-BIB-0102)

Atmospheric Measurements of Trace Hazardous Organic Chemicals

(CL-BIB-0103)

Hazardous Air Pollutants in the Urban Environment

(CL-BIB-0104)

Ambient Air/Source Transport and Transformation Relationships for Selected Hazardous Air Pollutants

(CL-BIB-0105)

Update of a Data Base on VOC in the Atmosphere

(CL-BIB-0106)

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

Harvard University Cooperative Agreement - Monographs On Research and Policy Issues Including Sensitive Individuals, Biological Screening Tests, Air Carcinogen Policy, and Regulation of Toxic and Nuclear Waste

(CL-BIB-0107)

Determine Pulmonary Dose-Response Relationships

(CL-BIB-0108)

Determine Neurotoxic Dose-Response Relationships

(CL-BIB-0109)

Characterize Genotoxic Dose-Response Relationships

(CL-BIB-0110)

Identify and Evaluate Toxic Components of Air Pollution

(CL-BIB-0111)

Determine the Significance of Neurotoxic Response Indicators

(CL-BIB-0112)

Evaluate the Contribution of Source Emissions to Cancer Risk

(CL-BIB-0113)

Develop Methods to Identify Reproductive Toxicity of Air Pollutants

(CL-BIB-0114)

Integrated Air Cancer Project

(CL-BIB-0115)

Destruction of VOC/HAP Emissions via Catalytic Incineration

(CL-BIB-0116)

Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment

(CL-BIB-0120)

Integrated Air Cancer Project: Wood Stove Operating Profiles

(CL-BIB-0128)

Demonstration of Low-Cost Reduction of Indoor Radon From Soil

(CL-BIB-0129)

CO2 Laser Photoacoustic Toxic Vapor Monitoring

(CL-BIB-0132)

Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System

(CL-BIB-0137)

Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility

(CL-BIB-0138)

Field Assessment of Steam VOC Removal Efficiencies

(CL-BIB-0140)

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities (CL-B18-0141)

Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-B18-0142)

Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water (CL-B18-0143)

Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants (CL-B18-0145)

New York State Stack Sampling of Resource Recovery Plants (CL-B18-0146)

Analysis of Acid Precipitation Samples Collected in West Virginia, Delaware, and Maryland (CL-B18-0147)

Analysis of Hazardous Pollutants from Ferrocromium Alloy Processes (CL-B18-0148)

Gulf Coast Community Exposure Study (CL-B18-0151)

2-Phase Project to Identify Metro Area Point Sources and Develop an Emissions Inventory (CL-B18-0152)

Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-B18-0153)

South Coast Exposure Study (CL-B18-0155)

Source Assessment Manual - Development of Ambient Guidelines for Non-Cancer Effects (CL-B18-0156)

Contra Costa Exposure Study (CL-B18-0157)

Pesticide Impact Study from Field and Slash Burning (CL-B18-0159)

Acrolein Preliminary Source Assessment (CL-B18-0254)

Phosgene Preliminary Source Assessment (CL-B18-0255)

Acetaldehyde Preliminary Source Assessment (CL-B18-0256)

Engineering Study: Standards Development for Hazardous Waste (CL-B18-0257)

Assessment of Potential Emissions from Wafer Board Manufacturing Plants (CL-B18-0258)

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

Assessment of Potential Sources of Toluene Dithiocyanate (TDI) Emissions

Chromium Project for Industrial Cooling Towers (CL-B18-0259)

Hazardous Organic NESHAP (CL-B18-0260)

Locating and Estimating Air Emissions from Sources of Benzene (CL-B18-0261)

Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (POM) (CL-B18-0262)

Decision on Regulation of Hydrocyanic Acid Under the Clean Air Act (CL-B18-0263)

Decision on Regulation of Propylene Under the Clean Air Act (CL-B18-0264)

Municipal Waste Combustion Study (CL-B18-0265)

Decision on Regulation of Phosphorus Under the Clean Air Act (CL-B18-0266)

Decision on Regulation of Ethyl Chloride Under the Clean Air Act (CL-B18-0267)

Decision on Regulation of Dimethylamine Under the Clean Air Act (CL-B18-0268)

Decision on Regulation of Selenium and its Compounds Under the Clean Air Act (CL-B18-0269)

Decision on Regulation of Phthalic Anhydride Under the Clean Air Act (CL-B18-0270)

Decision on Regulation of Sodium Hydroxide Under the Clean Air Act (CL-B18-0271)

Decision on Regulation of Camphochlor Under the Clean Air Act (CL-B18-0272)

Decision on Regulation of Hydrogen Fluoride Under the Clean Air Act (CL-B18-0273)

Decision on Regulation of Methyl Methacrylate Under the Clean Air Act (CL-B18-0274)

Decision on Regulation of Methyl Methacrylate Under the Clean Air Act (CL-B18-0275)

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

Decision on Regulation of Maleic Anhydride Under the Clean Air Act

Decision on Regulation of Mercuric Chloride Under the Clean Air Act

Decision on Regulation of Methanol Under the Clean Air Act

Health Assessment for Chromium, Update

Health Assessment Document for Chlorine & Hydrogen Chloride, External Review

Development of Methods to Interpret Metabolism Data

Health Assessment for Trichloroethylene-Cancer Update

Chemical Hazard Information Profile for Methyl Carbamate

Chemical Hazard Information Profile for Benzotriazol-Based UV Light

Chemical Hazard Information Profile for Piperonyl-Based UV Light Stabilizers

Toxics Air Monitoring Systems (TAMS)

Analytical Methods Development for Toxic Substances

Development Ambient Methods for Hazardous Waste

Develop Source Methods for Hazardous Waste

Indoor Air Quality Research

Monitoring Human Exposure to MAPs

Dioxin Analysis of Hospital Incinerator Ash

The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data

Estimation of Hazardous Air Emissions in Southeast Chicago from TSD

Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho

Study to Define and Determine Mitigation Methods for Air Pollution in Puget Sound

Ambient Air Monitoring in Portland, Oregon (Urban Soup)

Ambient Air Monitoring for PCBs in El Dorado, Arkansas

Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient

Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient

Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient

Clinton, New Jersey Radon Mitigation Follow-up and Long-term Testing

Demonstration of Mitigative Techniques in Existing Houses and New House Construction Techniques to Control Indoor Radon Exposure

Development and Demonstration of Indoor Radon Reduction Measures for Homes

Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques

Development and Demonstration of Indoor Radon Reduction Measure for up to Ten Homes in New Jersey

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)
Evaluate Radon Mitigation Systems Installed by
Local Contractors and Individual Homeowners
in Clinton, N. J.

Ethylene Oxide Control Technology Development
Program for Hospital Sterilizers--Phase II

Investigation of Radon Entry into Houses and
Effectiveness of Mitigation Techniques -
Evaluation Phase

Development and Demonstration of Indoor
Radon Reduction Measures for Homes

Regulatory Impact Analysis Engineering
Support - Chlorofluorocarbon Use
Category U1

Chemical-Specific Manuals for Accidental
Releases and Hazard Identification Systems

Air Toxic Accidental Release Prevention
Reference Manual - Mitigation Technology

POHC and PIC Screening

Regulatory Impact Analysis Engineering
Support-Chlorofluorocarbons Use Category U2

CFC Chemical Substitutes

Catalytic Wood Stove Field Performance
and Emission Monitoring

Chamber Studies Characterizing Emissions from
Unvented Combustion Sources

Toxics and VOC Research Program Priority
Development

Determining Wood Stove Catalyst Emission
Control Performance Degradation

Study of the Effects of Appliance Type and
Operating Variables on Residential Wood
Combustion Emissions

Development of Ultraviolet Curing for
Furniture Finishes

ENVIRONMENTAL PROTECTION AGENCY (EPA) (continued)

Evaluation of MAP Controls under Transient
Conditions

Control of Hazardous/Toxic Air Pollutant
Emissions: Wafer Board Manufacturing Plant

Morin West Wood Stove Study

VOC and MAP Control of Department of Defense
Facilities

Vapor Phase Catalytic Oxidation of Mixed
Volatile Organic Compounds

EPA (ENVIRONMENTAL PROTECTION AGENCY)
See titles under ENVIRONMENTAL PROTECTION AGENCY

EPIDEMIOLOGY STUDY (ES)

Methodologies for Worksite Neurotoxicity

Wynsinosis Prevention

Occupational Lung Disease Associated with Exposure to Diesel
Emissions

National Occupational Health Survey of Mining

Epidemiologic Environmental Study - Coal Miners Exposed to Diesel
Emissions

Morbidity and Industrial Hygiene Study Of Mild Steel Welders

Assessment of Coal Workers Pneumoconiosis and Respiratory Disease
in Surface Miners

National Coal Study and Coal Worker Surveillance

Study of Workers in the Dusty Trades in North Carolina - MCI

Health Experience of Industrial Sand Workers

Effects of formaldehyde on the Respiratory System

Epidemiologic Environmental Study - Office Workers

Prospective Study of Welders of Mild Steel

Mortality of Diesel Exposed Miners

EPIDEMIOLOGY STUDY (ES) (continued)

Endotoxins in Cotton (CL-818-0214)

Comparative Research in Analytical Pathology (CL-818-0216)

Mortality Analysis of United Auto Workers Cohorts (CL-818-0219)

Mortality Study of Chemical Plants in Kanawha Valley, West Virginia (CL-818-0221)

Mortality and Industrial Hygiene Study of Workers Exposed to Toluene (CL-818-0222)

Mortality and Industrial Hygiene Study of Formaldehyde (CL-818-0223)

Ethylene Oxide Mortality Study - NCI (CL-818-0224)

Investigation of Workers Exposed to MOCA (CL-818-0225)

Mortality of Dioxin Workers (CL-818-0226)

Update of Completed Cohort Mortality Studies - NCI (CL-818-0227)

Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI (CL-818-0228)

Beryllium Retrospective Cohort Investigation - NCI (CL-818-0229)

Medical, Biometric and Industrial Hygiene Study of Emerging Problems (CL-818-0230)

Health Hazard Evaluations and Technical Assistance (CL-818-0231)

Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-818-0232)

Cohort Mortality Study of Antimony Smelter Workers (CL-818-0233)

Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin (CL-818-0236)

Mortality Study of Workers Exposed to Chlorinated Naphthalenes (CL-818-0238)

Causes of Mortality Among Workers Exposed to Methyleneedianiline (MDA) (CL-818-0239)

Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (CL-818-0240)

EPIDEMIOLOGY STUDY (ES) (continued)

Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills (CL-818-0241)

Study of Lung Cancer Mortality Among Teamsters (CL-818-0242)

Cohort Mortality Study of Toluene Diisocyanate Exposed Workers (CL-818-0243)

Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI (CL-818-0244)

Mortality of Sulfuric Acid Exposed Workers (CL-818-0246)

Morbidity and Mortality Study of Workers Exposed to Nitroglycerin (CL-818-0247)

A Study of Worker Exposure to Grain Fumigants (CL-818-0249)

Access to National Occupational Hazard Survey Data Base Profile Development (CL-818-0252)

Surveillance Cooperative Agreements Between NIOSH and States (CL-818-0253)

ETHYLENE DICHLORIDE (107-06-2)
Hazardous Organic NESHAP (CL-818-0261)

ETHYLENE OXIDE (75-21-8)
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-818-0153)

Temporal Factors Influencing Carcinogenicity of Industrial Chemicals (CL-818-0190)

Mortality Study of Chemical Plants in Kanawha Valley, West Virginia (CL-818-0221)

Ethylene Oxide Mortality Study - NCI (CL-818-0224)

Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-818-0232)

Hazardous Organic NESHAP (CL-818-0261)

Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II (CL-818-0316)

ETHYLENETHALPHALATE, BIS, 2- (117-81-7)
Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-818-0232)

<u>EXPLOSIVES (2892)</u>	
Morbidity and Mortality Study of Workers Exposed to Nitroglycerin (CL-818-0247)	
<u>EXPOSURE ASSESSMENT (EA)</u>	
Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments (CL-818-0028)	<u>FABRICATED STRUCTURAL METAL PRODUCTS (344)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-818-0153)
Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion (CL-818-0029)	<u>FABRICATED PLATE WORK (BOILER SHOPS) (3443)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-818-0153)
Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities (CL-818-0030)	<u>FIELD CROPS, EXCEPT CASH GRAINS (013)</u> Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho (CL-818-0296)
Evaluation of Methods to Estimate Absorbed Doses of Inhaled Oxidants (CL-818-0069)	<u>FOOD AND KINDRED PRODUCTS (20)</u> A Study of Worker Exposure to Grain Fumigants (CL-818-0249)
Model of Human Exposures Inside Vehicles on Highways (CL-818-0096)	<u>FORESTRY (08)</u> Pesticide Impact Study from Field and Slash Burning (CL-818-0159)
Final Report of the Pesticide Total Exposure Study (CL-818-0101)	<u>FORMALDEHYDE (50-00-0)</u> Decision on Regulation of Formaldehyde Under the Clean Air Act (CL-818-0040)
Application of Total Exposure Assessment Methodology to the Study of Public Exposure to Pesticides in an Urban Area (CL-818-0102)	Effects of Formaldehyde on the Respiratory System (CL-818-0210)
Update of a Data Base on VOC in the Atmosphere (CL-818-0106)	Mortality and Industrial Hygiene Study of Formaldehyde (CL-818-0223)
Integrated Air Cancer Project (CL-818-0115)	Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-818-0232)
Gulf Coast Community Exposure Study (CL-818-0151)	<u>FURNITURE AND FIXTURES (25)</u> Development of Ultraviolet Curing for Furniture Finishers (CL-818-0331)
2-Phase Project to Identify Metro Area Point Sources and Develop an Emissions Inventory (CL-818-0152)	<u>GAS PRODUCTION AND DISTRIBUTION (492)</u> Evaluate the Contribution of Source Emissions to Cancer Risk (CL-818-0113)
South Coast Exposure Study (CL-818-0155)	<u>GAS PRODUCTION AND/OR DISTRIBUTION (4925)</u> Evaluate the Contribution of Source Emissions to Cancer Risk (CL-818-0113)
Contra Costa Exposure Study (CL-818-0157)	<u>GASOLINE SERVICE STATIONS (554)</u> Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments (CL-818-0028)
Exposure to Butadiene in the Industrial Environment (CL-818-0234)	<u>GENERAL BUILDING CONTRACTORS (15)</u> Asbestos MESMAP Revision (CL-818-0018)
Occupational Exposure During Sugar Cane Harvesting (CL-818-0250)	
Development of Methods to Interpret Metabolism Data (CL-818-0281)	
Indoor Air Quality Research (CL-818-0290)	
Monitoring Human Exposure to MAPs (CL-818-0291)	
<u>FABRICATED METAL PRODUCTS (34)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-818-0153)	

<u>GENERAL MEDICAL & SURGICAL HOSPITALS (8062)</u> Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II	(CL-818-0316)	<u>HEALTH ASSESSMENT (NA) (continued)</u> Health Assessment Document for Acetaldehyde, External Review	(CL-818-0061)
<u>GRAIN MILL PRODUCTS (204)</u> A Study of Worker Exposure to Grain Fumigants	(CL-818-0249)	Health Assessment Document for Hydrogen Sulfide, External Review	(CL-818-0062)
<u>HAZARDOUS WASTES (CL-MAZUAST)</u> Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities	(CL-818-0030)	Health Assessment Document for Phosgene, External Review	(CL-818-0063)
List of Superfund Hazardous Waste Sites with Air Contamination Problems	(CL-818-0054)	Health Assessment Document for Dibenzofurans	(CL-818-0064)
Potential for Air Releases From CERCLA Sites	(CL-818-0055)	Source Assessment Manual - Development of Ambient Guidelines for Non-Cancer Effects	(CL-818-0156)
Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System	(CL-818-0137)	Biomonitoring of Exposure to Coal Tar	(CL-818-0163)
Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility	(CL-818-0138)	Development and Evaluation of Biomonitoring Methods for Methyl Ethyl Ketone	(CL-818-0164)
Field Assessment of Steam VOC Removal Efficiencies	(CL-818-0140)	Health Hazard Evaluations and Technical Assistance	(CL-818-0231)
Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities	(CL-818-0141)	Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA	(CL-818-0232)
Field Assessment of Fate of Organics in Aerated Treatment Systems	(CL-818-0142)	Health Assessment for Chromium, Update	(CL-818-0279)
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water	(CL-818-0143)	Health Assessment Document for Chlorine & Hydrogen Chloride, External Review	(CL-818-0280)
Engineering Study: Standards Development for Hazardous Waste	(CL-818-0257)	Health Assessment for Trichloroethylene- Cancer Update	(CL-818-0282)
Development Ambient Methods for Hazardous Waste	(CL-818-0288)	Indoor Air Quality Research	(CL-818-0290)
Develop Source Methods for Hazardous Waste	(CL-818-0289)	<u>HEALTH SERVICES (80)</u> Dioxin Analysis of Hospital Incinerator Ash	(CL-818-0292)
POHC and PIC Screening	(CL-818-0322)	Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II	(CL-818-0316)
<u>HEALTH ASSESSMENT (NA)</u> Health Assessment Document for Beryllium, External Review	(CL-818-0057)	<u>HEAVY CONSTRUCTION CONTRACTORS (16)</u> Asbestos NESHAP Revision	(CL-818-0018)
Health Assessment Document for Acrolein	(CL-818-0059)	<u>HEPTACHLOR (76-44-8)</u> Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient	(CL-818-0300)
		<u>HOSPITALS (8062)</u> Dioxin Analysis of Hospital Incinerator Ash	(CL-818-0292)

<u>HOSPITALS (806) (continued)</u> Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II	(CL-818-0316)	<u>INDOOR AIR (1A) (continued)</u> Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient	(CL-818-0302)
<u>HOUSEHOLD FURNITURE (251)</u> Development of Ultraviolet Curing for Furniture Finishers	(CL-818-0331)	Clinton, New Jersey Radon Mitigation Follow-up and Long-Term Testing	(CL-818-0310)
<u>HOUSEHOLD FURNITURE, MEC (2519)</u> Development of Ultraviolet Curing for Furniture Finishers	(CL-818-0331)	Demonstration of Mitigative Techniques in Existing Houses and New House Construction Techniques to Control Indoor Radon Exposure	(CL-818-0311)
<u>HYDROGEN CHLORIDE (7667-01-0)</u> Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act	(CL-818-0037)	Development and Demonstration of Indoor Radon Reduction Measures for Homes	(CL-818-0312)
Health Assessment Document for Chlorine & Hydrogen Chloride, External Review	(CL-818-0280)	Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques	(CL-818-0313)
<u>HYDROGEN CYANIDE (76-90-8)</u> Decision on Regulation of Hydrocyanic Acid Under the Clean Air Act	(CL-818-0264)	Development and Demonstration of Indoor Radon Reduction Measure for up to Ten Homes in New Jersey	(CL-818-0314)
<u>HYDROGEN FLUORIDE (7664-39-3)</u> Decision on Regulation of Hydrogen Fluoride Under the Clean Air Act	(CL-818-0274)	Evaluate Radon Mitigation Systems Installed by Local Contractors and Individual Homeowners in Clinton, N. J.	(CL-818-0315)
<u>HYDROGEN SULFIDE (7783-06-4)</u> Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act	(CL-818-0042)	Investigation of Radon Entry into Houses and Effectiveness of Mitigation Techniques - Evaluation Phase	(CL-818-0317)
Health Assessment Document for Hydrogen Sulfide, External Review	(CL-818-0062)	Development and Demonstration of Indoor Radon Reduction Measures for Homes	(CL-818-0318)
<u>INDOOR AIR (1A)</u> Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action	(CL-818-0199)	Chamber Studies Characterizing Emissions from Unvented Combustion Sources	(CL-818-0326)
Epidemiologic Environmental Study - Office Workers	(CL-818-0211)	<u>INDOOR AIR POLLUTANTS (CL-1AP)</u> Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action	(CL-818-0199)
Indoor Air Quality Research	(CL-818-0290)	Epidemiologic Environmental Study - Office Workers	(CL-818-0211)
Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient	(CL-818-0300)	Indoor Air Quality Research	(CL-818-0290)
Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient	(CL-818-0301)	Chamber Studies Characterizing Emissions from Unvented Combustion Sources	(CL-818-0326)
		<u>INDUSTRIAL INORGANIC CHEMICALS (281)</u> Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-818-0120)

<u>INDUSTRIAL INORGANIC CHEMICALS (281) (continued)</u> Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes (CL-B18-0148)	<u>MALEIC ANHYDRIDE (108-31-6)</u> Decision on Regulation of Maleic Anhydride Under the Clean Air Act (CL-B18-0276)
<u>INDUSTRIAL ORGANIC CHEMICALS (286)</u> Temporal Factors Influencing Carcinogenicity of Industrial Chemicals (CL-B18-0190)	<u>MEDICAL INSTRUMENTS AND SUPPLIES (384)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-B18-0153)
Phosgene Preliminary Source Assessment (CL-B18-0255)	<u>MERCURIC CHLORIDE (7487-94-7)</u> Decision on Regulation of Mercuric Chloride Under the Clean Air Act (CL-B18-0277)
<u>INDUSTRIAL ORGANIC CHEMICALS, MEC (2869)</u> Phosgene Preliminary Source Assessment (CL-B18-0255)	<u>METAL MINING (10)</u> National Occupational Health Survey of Mining (CL-B18-0198)
<u>INORGANIC PIGMENTS (2816)</u> Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment (CL-B18-0120)	Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI (CL-B18-0244)
<u>INSTRUMENTS AND RELATED PRODUCTS (38)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers (CL-B18-0153)	Pulmonary Response to Inhaled Fibrogenic Minerals (CL-B18-0308)
<u>IRON AND STEEL FOUNDRIES (332)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders (CL-B18-0202)	<u>METALLIC COMPOUNDS (CL-METAL)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion (CL-B18-0029)
Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (CL-B18-0240)	New York State Stack Sampling of Resource Recovery Plants (CL-B18-0146)
Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills (CL-B18-0241)	Neurotoxicity from Exposure to Heavy Metals (CL-B18-0168)
Mortality of Sulfuric Acid Exposed Workers (CL-B18-0246)	<u>METHANOL (67-56-1)</u> Decision on Regulation of Methanol Under the Clean Air Act (CL-B18-0278)
<u>IRON OXIDE (1332-37-2)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders (CL-B18-0202)	<u>METHOXYETHYLENE BIS(2-(111-96-6)</u> Metabolism and Excretion Studies of Bis(2-Methoxyethyl) Ether(Diglyme) (CL-B18-0178)
<u>IRON OXIDE FUME (1309-37-1)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders (CL-B18-0202)	<u>METHYL CARBAMATE (598-55-0)</u> Chemical Hazard Information Profile for Methyl Carbamate (CL-B18-0283)
<u>LAUNDRY, CLEANING, & GARMENT SERVICES (721)</u> Organic Solvent Cleaning WESHAP (CL-B18-0014)	<u>METHYL ISOCYANATE (624-83-9)</u> Decision on Regulation of Methyl Isocyanate Under the Clean Air Act (CL-B18-0051)
<u>LEAD CHROMATE (7758-97-6)</u> Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI (CL-B18-0228)	<u>METHYL METHACRYLATE (80-62-6)</u> Decision on Regulation of Methyl Methacrylate Under the Clean Air Act (CL-B18-0275)
<u>LUMBER AND WOOD PRODUCTS (24)</u> Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant (CL-B18-0333)	

<u>METHYLENE CHLORIDE (75-09-2)</u> Organic Solvent Cleaning NESHAP	(CL-B18-0014)	<u>MISCELLANEOUS WOOD PRODUCTS (249)</u> Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant	(CL-B18-0333)
Hazardous Organic NESHAP	(CL-B18-0261)	<u>MOTOR VEHICLES AND EQUIPMENT (371)</u> Mortality Analysis of United Auto Workers Cohorts	(CL-B18-0219)
<u>METHYLENEDIAMINE, 4,4'- (101-77-9)</u> Causes of Mortality Among Workers Exposed to Methyleneedianiline (MDA)	(CL-B18-0239)	<u>NAPHTHALENE (91-20-3)</u> Decision on Regulation of Naphthalene Under the Clean Air Act	(CL-B18-0044)
<u>MINERAL FIBERS (CL-M1MFIB)</u> Development of Short Term Assays to Predict Dust-Induced Lung Disease	(CL-B18-0305)	<u>NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAP)</u> Cadmium NESHAP	(CL-B18-0010)
Pulmonary Response to Inhaled Fibrogenic Minerals	(CL-B18-0308)	Organic Solvent Cleaning NESHAP	(CL-B18-0014)
<u>MISC. SPECIAL TRADE CONTRACTORS (179)</u> Asbestos NESHAP Revision	(CL-B18-0018)	Asbestos NESHAP Revision	(CL-B18-0018)
Prospective Study of Welders of Mild Steel	(CL-B18-0212)	Chromium NESHAP	(CL-B18-0020)
<u>MISCELLANEOUS CHEMICAL PRODUCTS (289)</u> Morbidity and Mortality Study of Workers Exposed to Nitroglycerin	(CL-B18-0247)	Hazardous Organic NESHAP	(CL-B18-0261)
<u>MISCELLANEOUS METAL ORES (109)</u> Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI	(CL-B18-0244)	<u>NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH (NIOSH)</u> Particulate and Tissue Analysis Service and Research	(CL-B18-0161)
<u>MISCELLANEOUS NONMETALLIC MINERALS (149)</u> Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms	(CL-B18-0217)	Evaluation of Mesothelioma Production by Asbestos Substitutes	(CL-B18-0162)
<u>MISCELLANEOUS REPAIR SERVICES (76)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-B18-0202)	Biomonitoring of Exposure to Coal Tar	(CL-B18-0163)
Prospective Study of Welders of Mild Steel	(CL-B18-0212)	Development and Evaluation of Biomonitoring Methods for Methyl Ethyl Ketone	(CL-B18-0164)
Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-B18-0240)	Behavioral Teratology of Alcohol Solvents	(CL-B18-0165)
<u>MISCELLANEOUS REPAIR SHOPS (769)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-B18-0202)	Neurotoxicity of Aliphatic Carbon Solvents	(CL-B18-0166)
Prospective Study of Welders of Mild Steel	(CL-B18-0212)	Neurobehavioral Effects from Single/Mixed Spray Paint Agents	(CL-B18-0167)
Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-B18-0240)	Neurotoxicity from Exposure to Heavy Metals	(CL-B18-0168)
		Methodologies for Worksite Neurotoxicity	(CL-B18-0169)
		Assessment of Cocarcinogenic Activity of Asphalt Fumes	(CL-B18-0174)
		Inhalation Reproductive and Developmental Toxicity Testing	(CL-B18-0175)

NATIONAL INSTITUTE FOR OCCUP., SAFETY AND HEALTH (NIOSH) (continued)	
Metabolism and Excretion Studies of Bis(2-Methoxyethyl) Ether (Diglyme)	(CL-818-0178)
V205- NTP Chemical Manager	(CL-818-0181)
In Vitro Tests for Workplace Carcinogens	(CL-818-0182)
Dimethylformamide- NTP Chemical Manager	(CL-818-0186)
Semen Analysis in Animals, Longitudinal and Field Studies	(CL-818-0188)
Evaluation of Drosophila for Teratogen Screening	(CL-818-0189)
Temporal Factors Influencing Carcinogenicity of Industrial Chemicals	(CL-818-0190)
Vysshinosis Prevention	(CL-818-0192)
Occupational Lung Disease Associated with Exposure to Diesel Emissions	(CL-818-0193)
Effective Silica Indices of Respirable Mineral Dusts	(CL-818-0195)
National Occupational Health Survey of Mining	(CL-818-0198)
Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action	(CL-818-0199)
Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions	(CL-818-0201)
Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-818-0202)
Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners	(CL-818-0205)
National Coal Study and Coal Worker Surveillance	(CL-818-0206)
Study of Workers in the Dusty Trades in North Carolina - MCI	(CL-818-0207)
Health Experience of Industrial Sand Workers	(CL-818-0208)
Effects of Formaldehyde on the Respiratory System	(CL-818-0210)
Epidemiologic Environmental Study - Office Workers	(CL-818-0211)
Prospective Study of Welders of Mild Steel	(CL-818-0212)
NATIONAL INSTITUTE FOR OCCUP., SAFETY AND HEALTH (NIOSH) (continued)	
Mortality of Diesel Exposed Miners	(CL-818-0213)
Endotoxins in Cotton	(CL-818-0214)
Comparative Research in Analytical Pathology	(CL-818-0216)
Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms	(CL-818-0217)
Alveolar Type II Cells; Effect of Silica	(CL-818-0218)
Mortality Analysis of United Auto Workers Cohorts	(CL-818-0219)
Mortality Study of Chemical Plants in Kanawha Valley, West Virginia	(CL-818-0221)
Mortality and Industrial Hygiene Study of Workers Exposed to Toluene	(CL-818-0222)
Mortality and Industrial Hygiene Study of Formaldehyde	(CL-818-0223)
Ethylene Oxide Mortality Study - MCI	(CL-818-0224)
Investigation of Workers Exposed to MOCA	(CL-818-0225)
Mortality of Dioxin Workers	(CL-818-0226)
Update of Completed Cohort Mortality Studies - MCI	(CL-818-0227)
Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - MCI	(CL-818-0228)
Beryllium Retrospective Cohort Investigation - MCI	(CL-818-0229)
Medical, Biometric and Industrial Hygiene Study of Emerging Problems	(CL-818-0230)
Health Hazard Evaluations and Technical Assistance	(CL-818-0231)
Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA	(CL-818-0232)
Cohort Mortality Study of Antimony Smelter Workers	(CL-818-0233)
Exposure to Butadiene in the Industrial Environment	(CL-818-0234)
Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin	(CL-818-0236)

<u>NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH (NIOSH) (continued)</u> Mortality Study of Workers Exposed to Chlorinated Naphthalenes (CL-BIB-0238)	<u>NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH (NIOSH) (continued)</u> Pulmonary Response to Inhaled Fibrogenic Minerals (CL-BIB-0308)
Causes of Mortality Among Workers Exposed to Methylenedianiline (MDA) (CL-BIB-0239)	Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis (CL-BIB-0309)
Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (CL-BIB-0240)	<u>NICKEL POWDER (7440-02-0)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion (CL-BIB-0029)
Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills (CL-BIB-0241)	Develop Sampling Methods for Speciated Nickel (CL-BIB-0081)
Study of Lung Cancer Mortality Among Teamsters (CL-BIB-0242)	<u>NIOSH (NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH)</u> See titles under NATIONAL INSTITUTE FOR OCCUP. SAFETY AND HEALTH
Cohort Mortality Study of Toluene Diisocyanate Exposed Workers (CL-BIB-0243)	<u>NITROGLYCERINE (55-63-0)</u> Morbidity and Mortality Study of Workers Exposed to Nitroglycerin (CL-BIB-0247)
Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI (CL-BIB-0244)	<u>NONMETALLIC MINERALS, EXCEPT FUELS (14)</u> National Occupational Health Survey of Mining (CL-BIB-0198)
Mortality of Sulfuric Acid Exposed Workers (CL-BIB-0246)	Health Experience of Industrial Sand Workers (CL-BIB-0208)
Morbidity and Mortality Study of Workers Exposed to Nitroglycerin (CL-BIB-0247)	Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-BIB-0217)
A Study of Worker Exposure to Grain Fumigants (CL-BIB-0249)	Alveolar Type II Cells; Effect of Silica (CL-BIB-0218)
Occupational Exposure During Sugar Cane Harvesting (CL-BIB-0250)	Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis (CL-BIB-0309)
Access to National Occupational Hazard Survey Data Base Profile Development (CL-BIB-0252)	<u>OFFICE FURNITURE (252)</u> Development of Ultraviolet Curing for Furniture Finishers (CL-BIB-0331)
Surveillance Cooperative Agreements Between NIOSH and States (CL-BIB-0253)	<u>OIL AND GAS EXTRACTION (13)</u> National Occupational Health Survey of Mining (CL-BIB-0198)
Cellular and Molecular Cardiac Toxicology (CL-BIB-0303)	Mortality of Diesel Exposed Miners (CL-BIB-0213)
Arylamine Adducts in Blood as Indicators of Exposure (CL-BIB-0304)	<u>ORGANIC COMPOUNDS (CL-ORGANIC)</u> Report on Advances in Analytical Methods for Identification and Quantitation of Organic Compounds in Air (CL-BIB-0097)
Development of Short Term Assays to Predict Dust-Induced Lung Disease (CL-BIB-0305)	Atmospheric Measurements of Trace Hazardous Organic Chemicals (CL-BIB-0103)
Evaluation of Mesothelioma Production by Asbestos Substitutes (CL-BIB-0306)	Evaluate the Contribution of Source Emissions to Cancer Risk (CL-BIB-0113)
Particulate and Tissue Analysis Service and Research (CL-BIB-0307)	

<u>ORGANIC COMPOUNDS (CL-ORGANIC) (continued)</u> Field Assessment of Fate of Organics in Aerated Treatment Systems (CL-818-0142)	<u>PHENETHYL ALCOHOL (60-12-8)</u> Information Gathering and Risk Analysis of Existing Data on Phenylethanol (CL-818-0077)
<u>Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action</u> (CL-818-0199)	<u>PHOSGENE (75-44-5)</u> Decision on Regulation of Phosgene Under the Clean Air Act (CL-818-0046)
<u>Mortality Study of Workers Exposed to Chlorinated Naphthalenes</u> (CL-818-0238)	Health Assessment Document for Phosgene, External Review (CL-818-0063)
<u>Assessment of Potential Emissions from Wafer Board Manufacturing Plants</u> (CL-818-0258)	Phosgene Preliminary Source Assessment (CL-818-0255)
<u>PAPER AND ALLIED PRODUCTS (26)</u> Assessment of Potential Emissions from Wafer Board Manufacturing Plants (CL-818-0258)	<u>PHOSPHOROUS (YELLOW) (7723-14-0)</u> Decision on Regulation of Phosphorus Under the Clean Air Act (CL-818-0267)
<u>PAPERBOARD MILLS (263)</u> Assessment of Potential Emissions from Wafer Board Manufacturing Plants (CL-818-0258)	<u>PHTHALATES (CL-PHTH)</u> Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters (CL-818-0076)
<u>PAPERBOARD MILLS (2631)</u> Assessment of Potential Emissions from Wafer Board Manufacturing Plants (CL-818-0258)	<u>PHTHALIC ACID, DI(METHOXYETHYL) ESTER (117-82-8)</u> Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters (CL-818-0076)
<u>PARTICULATE MATTER (CL-PM)</u> Pesticide Impact Study from Field and Slash Burning (CL-818-0159)	<u>PHTHALIC ANHYDRIDE (85-44-9)</u> Decision on Regulation of Phthalic Anhydride Under the Clean Air Act (CL-818-0271)
Analytical Methods Development for Toxic Substances (CL-818-0287)	<u>PHTHALIMIDE (85-41-6)</u> Risk Analysis of Existing Data on Phthalimide (CL-818-0079)
<u>PENTACHLOROPHENOL (87-86-5)</u> Mortality of Dioxin Workers (CL-818-0226)	<u>PIPERONYL (1893-33-0)</u> Chemical Hazard Information Profile for Piperonyl-Based UV Light Stabilizers (CL-818-0285)
<u>PERSONAL SERVICES (72)</u> Organic Solvent Cleaning WESHAP (CL-818-0014)	<u>POLYCHLORINATED BIPHENYLS (1336-36-3)</u> Locating and Estimating Air Emissions From Sources of Polychlorinated Biphenyls (PCB) (CL-818-0023)
<u>PESTICIDES (CL-PEST)</u> Final Report of the Pesticide Total Exposure Study (CL-818-0101)	New York State Stack Sampling of Resource Recovery Plants (CL-818-0146)
Application of Total Exposure Assessment Methodology to the Study of Public Exposure to Pesticides in an Urban Area (CL-818-0102)	Update of Completed Cohort Mortality Studies - MCI (CL-818-0227)
Pesticide Impact Study from Field and Slash Burning (CL-818-0159)	<u>POLYCYCLIC ORGANIC MATTER (CL-POM)</u> Pesticide Impact Study from Field and Slash Burning (CL-818-0159)
Update of Completed Cohort Mortality Studies - MCI (CL-818-0227)	Occupational Exposure During Sugar Cane Harvesting (CL-818-0250)
<u>PETROLEUM AND PETROLEUM PRODUCTS (517)</u> Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments (CL-818-0028)	

POLYCYCLIC ORGANIC MATTER (CL-POM) (continued)
Locating and Estimating Air Emissions from
Sources of Polycyclic Organic Material (POM)

<u>PRE-REGULATORY ASSESSMENT (PRA)</u> Decision on Regulation of Acetaldehyde Under The Clean Air Act	(CL-B1B-0263)
Decision on Regulation of Acrolein Under the Clean Air Act	(CL-B1B-0034)
Decision on Regulation of Ammonia Under the Clean Air Act	(CL-B1B-0035)
Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act	(CL-B1B-0036)
Decision on Regulation of Formaldehyde Under the Clean Air Act	(CL-B1B-0037)
Decision on Regulation of Gasoline Vapors Under the Clean Air Act	(CL-B1B-0040)
Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act	(CL-B1B-0041)
Decision on Regulation of Mineral Fibers Under the Clean Air Act	(CL-B1B-0042)
Decision on Regulation of Naphthalene Under the Clean Air Act	(CL-B1B-0043)
Decision on Regulation of Phosgene Under the Clean Air Act	(CL-B1B-0044)
Decision on Regulation of Propylene Oxide and Propylene Under the Clean Air Act	(CL-B1B-0046)
Decision on Regulation of Styrene Under the Clean Air Act	(CL-B1B-0048)
Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act	(CL-B1B-0049)
Decision on Regulation of Methyl Isocyanate Under the Clean Air Act	(CL-B1B-0050)
Decision on Regulation of Xylene Under the Clean Air Act	(CL-B1B-0051)
Decision on Regulation of Xylene Under the Clean Air Act	(CL-B1B-0052)

<u>PRE-REGULATORY ASSESSMENT (PRA) (continued)</u> Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act	(CL-B1B-0053)
Engineering Study: Standards Development for Hazardous Waste	(CL-B1B-0257)
Decision on Regulation of Hydrocyanic Acid Under the Clean Air Act	(CL-B1B-0264)
Decision on Regulation of Propylene Under the Clean Air Act	(CL-B1B-0265)
Municipal Waste Combustion Study	(CL-B1B-0266)
Decision on Regulation of Phosphorus Under the Clean Air Act	(CL-B1B-0267)
Decision on Regulation of Ethyl Chloride Under the Clean Air Act	(CL-B1B-0268)
Decision on Regulation of Dimethylamine Under the Clean Air Act	(CL-B1B-0269)
Decision on Regulation of Selenium and its Compounds Under the Clean Air Act	(CL-B1B-0270)
Decision on Regulation of Phthalic Anhydride Under the Clean Air Act	(CL-B1B-0271)
Decision on Regulation of Sodium Hydroxide Under the Clean Air Act	(CL-B1B-0272)
Decision on Regulation of Camphochlor Under the Clean Air Act	(CL-B1B-0273)
Decision on Regulation of Hydrogen Fluoride Under the Clean Air Act	(CL-B1B-0274)
Decision on Regulation of Methyl Methacrylate Under the Clean Air Act	(CL-B1B-0275)
Decision on Regulation of Maleic Anhydride Under the Clean Air Act	(CL-B1B-0276)
Decision on Regulation of Mercuric Chloride Under the Clean Air Act	(CL-B1B-0277)
Decision on Regulation of Methanol Under the Clean Air Act	(CL-B1B-0278)

PRIMARY METAL INDUSTRIES (33)

Coke Oven Emissions: Charging, Topside Leaks, Door Leaks NESHAP
(CL-B1B-0012)

Analysis of Hazardous Pollutants from Ferrocromium Alloy
Processes (CL-B1B-0148)

Morbidity and Industrial Hygiene Study Of Mild Steel Welders
(CL-B1B-0202)

Cohort Mortality Study of Antimony Smelter Workers
(CL-B1B-0233)

Cohort Mortality Study of Welders Who Have Not Been Exposed to
Asbestos, Nickel, or Chromium (CL-B1B-0240)

Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed
to Sulfuric Acid in Steel Mills (CL-B1B-0241)

Mortality of Sulfuric Acid Exposed Workers
(CL-B1B-0246)

PROPYLENE (115-07-1)

Decision on Regulation of Propylene Under the
Clean Air Act (CL-B1B-0265)

PROPYLENE OXIDE (75-56-9)

Decision on Regulation of Propylene Oxide and Propylene Under the
Clean Air Act (CL-B1B-0048)

PYRENE (129-00-0)

Biomonitoring of Exposure to Coal Tar
(CL-B1B-0163)

RADON (10043-92-2)

Demonstration of Low-Cost Reduction of Indoor Radon From Soil
(CL-B1B-0129)

Long Term Effects of Exposure to Low Doses of Radon Daughters -
NCI (CL-B1B-0244)

Clinton, New Jersey Radon Mitigation
Follow-up and Long-term Testing (CL-B1B-0310)

Demonstration of Mitigative Techniques in
Existing Houses and New House Construction
Techniques to Control Indoor Radon Exposure
(CL-B1B-0311)

Development and Demonstration of Indoor
Radon Reduction Measures for Homes
(CL-B1B-0312)

Investigation of Radon Entry Into Dwellings
and the Effects of Selected Radon Mitigation
Techniques (CL-B1B-0313)

RADON (10043-92-2) (continued)

Development and Demonstration of Indoor Radon
Reduction Measure for up to Ten Homes in New
Jersey (CL-B1B-0314)

Evaluate Radon Mitigation Systems Installed by
Local Contractors and Individual Homeowners
in Clinton, N. J. (CL-B1B-0315)

Investigation of Radon Entry into Houses and
Effectiveness of Mitigation Techniques -
Evaluation Phase (CL-B1B-0317)

Development and Demonstration of Indoor
Radon Reduction Measures for Homes
(CL-B1B-0318)

REFUSE SYSTEMS (4953)

Exposure/Risk Assessment on Air Emissions From Treatment, Storage
and Disposal Facilities (CL-B1B-0030)

List of Superfund Hazardous Waste Sites with Air Contamination
Problems (CL-B1B-0054)

Potential for Air Releases From CERCLA Sites
(CL-B1B-0055)

Field Assessment of Surface Impoundment Air Emissions and Their
Control Using an Inflated Dome and Carbon Adsorption System
(CL-B1B-0137)

Field Assessment of Air Emissions and Their Control at a Refinery
Land Treatment Facility (CL-B1B-0138)

Field Assessment of Steam VOC Removal
Efficiencies (CL-B1B-0140)

Field Assessment of Waste Pretreatment at Refinery Land Treatment
Facilities (CL-B1B-0141)

Field Assessment of Fate of Organics in Aerated Treatment Systems
(CL-B1B-0142)

Selection Guide for Mobile/Transportable Treatment
Technologies for the Removal of Volatile Organics from Water
(CL-B1B-0143)

New York State Stack Sampling of Resource Recovery Plants
(CL-B1B-0146)

Municipal Waste Combustion Study
(CL-B1B-0266)

Dioxin Analysis of Hospital Incinerator Ash
(CL-B1B-0292)

<u>REFUSE SYSTEMS (4953) (continued)</u> Estimation of Hazardous Air Emissions in Southeast Chicago from TSD	(CL-818-0295)	<u>RISK ASSESSMENT (RA) (continued)</u> Information Gathering and Risk Analysis of Existing Data on Phenylethanol Acetate	(CL-818-0078)
Ambient Air Monitoring for PCBs in El Dorado, Arkansas	(CL-818-0299)	Risk Analysis of Existing Data on Phthalimide	(CL-818-0079)
<u>REGULATIONS OR RULES (RR)</u> Chromium Project for Industrial Cooling Towers	(CL-818-0260)	Harvard University Cooperative Agreement - Monographs On Research and Policy Issues Including Sensitive Individuals, Biological Screening Tests, Air Carcinogen Policy, and Regulation of Toxic and Nuclear Waste	(CL-818-0107)
<u>REGULATORY DEVELOPMENT GUIDANCE (RDG)</u> Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient	(CL-818-0300)	Evaluate the Contribution of Source Emissions to Cancer Risk	(CL-818-0113)
Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient	(CL-818-0301)	<u>SAND AND GRAVEL (146)</u> Health Experience of Industrial Sand Workers	(CL-818-0208)
Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient	(CL-818-0302)	Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms	(CL-818-0217)
Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1	(CL-818-0319)	Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis	(CL-818-0309)
Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2	(CL-818-0323)	<u>SANITARY SERVICES (495)</u> Exposure/Risk Assessment on Air Emissions from Treatment, Storage and Disposal Facilities	(CL-818-0030)
<u>RESINS (CL-RESIM)</u> Assessment of Potential Emissions from Water Board Manufacturing Plants	(CL-818-0258)	List of Superfund Hazardous Waste Sites with Air Contamination Problems	(CL-818-0054)
<u>RISK ASSESSMENT (RA)</u> EPA-State Pilot Project for the Control of Acrylonitrile Emissions	(CL-818-0027)	Potential for Air Releases from CERCLA Sites	(CL-818-0055)
Exposure/Risk Assessment on Air Emissions from Treatment, Storage and Disposal Facilities	(CL-818-0030)	Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System	(CL-818-0137)
Risk Analysis of Existing Data on Triethyl Phosphate	(CL-818-0075)	Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility	(CL-818-0138)
Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters	(CL-818-0076)	Field Assessment of Steam VOC Removal Efficiencies	(CL-818-0140)
Information Gathering and Risk Analysis of Existing Data on Phenylethanol	(CL-818-0077)	Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities	(CL-818-0141)
		Field Assessment of Fate of Organics in Aerated Treatment Systems	(CL-818-0142)
		Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water	(CL-818-0143)

<u>SANITARY SERVICES (695) (continued)</u>	
Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants	(CL-818-0145)
New York State Stock Sampling of Resource Recovery Plants	(CL-818-0146)
Municipal Waste Combustion Study	(CL-818-0266)
Dioxin Analysis of Hospital Incinerator Ash	(CL-818-0292)
The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility	(CL-818-0293)
Estimation of Hazardous Air Emissions in Southeast Chicago from TSD	(CL-818-0295)
Ambient Air Monitoring for PCBs in El Dorado, Arkansas	(CL-818-0299)
<u>SANITARY SERVICES, MEC (6959)</u>	
Estimation of Hazardous Air Emissions in Southeast Chicago from TSD	(CL-818-0295)
<u>SECONDARY NONFERROUS METALS (334)</u>	
Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes	(CL-818-0148)
<u>SELENIUM COMPOUNDS, AS SE (7782-49-2)</u>	
Decision on Regulation of Selenium and its Compounds Under the Clean Air Act	(CL-818-0270)
<u>SERVICES TO BUILDINGS (734)</u>	
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers	(CL-818-0153)
<u>SEWERAGE SYSTEMS (6952)</u>	
Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants	(CL-818-0145)
The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility	(CL-818-0293)
<u>SILICA (7631-86-9)</u>	
Effective Silica Indices of Respirable Mineral Dusts	(CL-818-0195)
Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners	(CL-818-0205)
Study of Workers in the Dusty Trades in North Carolina - MCI	(CL-818-0207)
<u>SILICA (7631-86-9) (continued)</u>	
Health Experience of Industrial Sand Workers	(CL-818-0208)
Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms	(CL-818-0217)
Alveolar Type II Cells; Effect of Silica	(CL-818-0218)
Occupational Exposure During Sugar Cane Harvesting	(CL-818-0250)
Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis	(CL-818-0309)
<u>SODIUM HYDROXIDE (1310-73-2)</u>	
Decision on Regulation of Sodium Hydroxide Under the Clean Air Act	(CL-818-0272)
<u>SOLVENTS (CL-SOLVENT)</u>	
Behavioral Teratology of Alcohol Solvents	(CL-818-0165)
Neurotoxicity of Aliphatic Carbon Solvents	(CL-818-0166)
<u>SOURCE ASSESSMENT (354)</u>	
Locating and Estimating Air Emissions From Sources of Polychlorinated Biphenyls (PCB)	(CL-818-0023)
EPA-State Pilot Project For the Control of Acrylonitrile Emissions	(CL-818-0027)
List of Superfund Hazardous Waste Sites with Air Contamination Problems	(CL-818-0084)
Potential for Air Releases from CERCLA Sites	(CL-818-0053)
Hazardous Air Pollutants in the Urban Environment	(CL-818-0104)
Evaluate the Contribution of Source Emissions to Cancer Risk	(CL-818-0113)
Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-818-0120)
Integrated Air Cancer Project: Wood Stove Operating Profiles	(CL-818-0128)
Demonstration of Low-Cost Reduction of Indoor Radon From Soil	(CL-818-0129)
Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System	(CL-818-0137)

<u>SOURCE ASSESSMENT (SA) (continued)</u> Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility	(CL-B18-0138)	<u>SOURCE ASSESSMENT (SA) (continued)</u> Locating and Estimating Air Emissions from Sources of Polycyclic Organic Material (POM)	(CL-B18-0263)
Field Assessment of Steam VOC Removal Efficiency	(CL-B18-0140)	Indoor Air Quality Research	(CL-B18-0290)
Field Assessment of Waste Pretreatment at Refinery Land Treatment Facility	(CL-B18-0141)	Dioxin Analysis of Hospital Incinerator Ash	(CL-B18-0292)
Field Assessment of fate of Organics in Aerated Treatment Systems	(CL-B18-0142)	Estimation of Hazardous Air Emissions in Southeast Chicago from TSD	(CL-B18-0295)
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water	(CL-B18-0143)	Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho	(CL-B18-0296)
Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants	(CL-B18-0145)	Study to Define and Determine Mitigation Methods for Air Pollution in Puget Sound	(CL-B18-0297)
New York State Stack Sampling of Resource Recovery Plants	(CL-B18-0146)	Ambient Air Monitoring in Portland, Oregon (Urban Soup)	(CL-B18-0298)
Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes	(CL-B18-0148)	Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient	(CL-B18-0300)
2-Phase Project to Identify Metro Area Point Sources and Develop an Emissions Inventory	(CL-B18-0152)	Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient	(CL-B18-0301)
Emission Factors for Ethylene Oxide from Sterilizers and Fueligation Chambers	(CL-B18-0153)	Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient	(CL-B18-0302)
Pesticide Impact Study from Field and Slash Burning	(CL-B18-0159)	Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques	(CL-B18-0313)
Micro-Organisms in Contaminated Office Buildings: Effects of Remedial Action	(CL-B18-0199)	Chamber Studies Characterizing Emissions from Unvented Combustion Sources	(CL-B18-0326)
Acrolein Preliminary Source Assessment	(CL-B18-0254)	Control of Hazardous/Toxic Air Pollutant Emissions: Wafer Board Manufacturing Plant	(CL-B18-0333)
Phosgene Preliminary Source Assessment	(CL-B18-0255)	<u>SOURCE SAMPLING (SS)</u> Develop Sampling Methods for Speciated Nickel	(CL-B18-0031)
Acetaldehyde Preliminary Source Assessment	(CL-B18-0256)	Validate an Emission Test Method for Bleaching	(CL-B18-0062)
Assessment of Potential Emissions from Wafer Board Manufacturing Plants	(CL-B18-0258)	Source Test Methods for Ammonia and Chlorine	(CL-B18-0084)
Assessment of Potential Sources of Toluene Diisocyanate (TDI) Emissions	(CL-B18-0259)	Report on Development of New Sampling and Analysis Techniques for Ambient Hazardous Air Pollutants (HAP)	(CL-B18-0087)
Locating and Estimating Air Emissions from Sources of Benzene	(CL-B18-0262)		

SOURCE SAMPLING (SS) (continued)

Hazardous Air Pollutants in the Urban Environment (CL-B18-0104)

Ambient Air/Source Transport and Transformation Relationships for Selected Hazardous Air Pollutants (CL-B18-0105)

Update of a Data Base on VOC in the Atmosphere (CL-B18-0106)

New York State Stack Sampling of Resource Recovery Plants (CL-B18-0146)

Analysis of Acid Precipitation Samples Collected in West Virginia, Delaware, and Maryland (CL-B18-0147)

Effective Silica Indices of Respirable Mineral Dusts (CL-B18-0195)

Analytical Methods Development for Toxic Substances (CL-B18-0287)

Develop Source Methods for Hazardous Waste (CL-B18-0289)

The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility (CL-B18-0293)

Particulate and Tissue Analysis Service and Research (CL-B18-0307)

Clinton, New Jersey Radon Mitigation Follow-up and Long-term Testing (CL-B18-0310)

Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques (CL-B18-0313)

Development and Demonstration of Indoor Radon Reduction Measures for Homes (CL-B18-0318)

Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1 (CL-B18-0319)

Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2 (CL-B18-0323)

Catalytic Wood Stove Field Performance and Emission Monitoring (CL-B18-0325)

Toxics and VOC Research Program Priority Development (CL-B18-0328)

SOURCE SAMPLING (SS) (continued)

Evaluation of MAP Controls under Transient Conditions (CL-B18-0332)

North West Wood Stove Study (CL-B18-0334)

VOC and MAP Control of Department of Defense facilities (CL-B18-0335)

SPECIAL TRADE CONTRACTORS (172) Asbestos MESMAP Revision (CL-B18-0018)

Prospective Study of Welders of Mild Steel (CL-B18-0212)

SPECIAL TRADE CONTRACTORS, MEC (1799) Prospective Study of Welders of Mild Steel (CL-B18-0212)

STYRENE (100-42-5) Decision on Regulation of Styrene Under the Clean Air Act (CL-B18-0049)

Update of Completed Cohort Mortality Studies - MCI (CL-B18-0227)

SUGAR CROPS (0133) Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho (CL-B18-0296)

SULFURIC ACID (7664-93-9) Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills (CL-B18-0241)

Mortality of Sulfuric Acid Exposed Workers (CL-B18-0246)

TETRACHLORO(BENZODIOXIN, 2,3,7,8-P- (1746-01-6) Validate an Emission Test Method for Dioxins (CL-B18-0082)

Morbidity and Reproductive Studies of Worker Cohorts Exposed to Dioxin (CL-B18-0236)

TETRACHLOROETHYLENE (127-18-6) Organic Solvent Cleaning MESMAP (CL-B18-0014)

Update of Completed Cohort Mortality Studies - MCI (CL-B18-0227)

Hazardous Organic MESMAP (CL-B18-0261)

TEXTILE MILL PRODUCTS (22) Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment (CL-B18-0120)

Vysinosis Prevention (CL-B18-0192)

<u>TEXTILE MILL PRODUCTS (22) (continued)</u>	
Comparative Research in Analytical Pathology	(CL-BIB-0216)
<u>TOLUENE (108-88-3)</u>	
Mortality and Industrial Hygiene Study of Workers Exposed to Toluene	(CL-BIB-0222)
<u>TOLUENE DIISOCYANATE (26471-62-5)</u>	
Cohort Mortality Study of Toluene Diisocyanate Exposed Workers	(CL-BIB-0243)
Assessment of Potential Sources of Toluene Diisocyanate (TDI) Emissions	(CL-BIB-0259)
<u>TOLUENE, 2,4-DIISOCYANATE (584-84-9)</u>	
Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act	(CL-BIB-0050)
<u>TOXAPHENE (8001-35-2)</u>	
Decision on Regulation of Camphochlor Under the Clean Air Act	(CL-BIB-0273)
<u>TOXICITY TESTING (17)</u>	
Determine Pulmonary Dose-Response Relationships	(CL-BIB-0108)
Determine Neurotoxic Dose-Response Relationships	(CL-BIB-0109)
Characterize Genotoxic Dose-Response Relationships	(CL-BIB-0110)
Identify and Evaluate Toxic Components of Air Pollution	(CL-BIB-0111)
Determine the Significance of Neurotoxic Response Indicators	(CL-BIB-0112)
Evaluate the Contribution of Source Emissions to Cancer Risk	(CL-BIB-0113)
Develop Methods to Identify Reproductive Toxicity of Air Pollutants	(CL-BIB-0114)
Particulate and Tissue Analysis Service and Research	(CL-BIB-0161)
Evaluation of Mesothelioma Production by Asbestos Substitutes	(CL-BIB-0162)
Behavioral Teratology of Alcohol Solvents	(CL-BIB-0165)
Neurotoxicity of Aliphatic Carbon Solvents	(CL-BIB-0166)
<u>TOXICITY TESTING (17) (continued)</u>	
Neurobehavioral Effects from Single/Mixed Spray Paint Agents	(CL-BIB-0167)
Neurotoxicity from Exposure to Heavy Metals	(CL-BIB-0168)
Methodologies for Workplace Neurotoxicity	(CL-BIB-0169)
Assessment of Cocarcinogenic Activity of Asphalt Fumes	(CL-BIB-0174)
Inhalation Reproductive and Developmental Toxicity Testing	(CL-BIB-0175)
Metabolism and Excretion Studies of Bis(2-Methoxyethyl) Ether(Diglyme)	(CL-BIB-0178)
V205- WTP Chemical Manager	(CL-BIB-0181)
In Vitro Tests for Workplace Carcinogens	(CL-BIB-0182)
Dimethylformamide- WTP Chemical Manager	(CL-BIB-0186)
Semen Analysis in Animals, Longitudinal and Field Studies	(CL-BIB-0188)
Evaluation of Orosophila for Teratogen Screening	(CL-BIB-0189)
Temporal Factors Influencing Carcinogenicity of Industrial Chemicals	(CL-BIB-0190)
Vysshinosis Prevention	(CL-BIB-0192)
Endotoxins in Cotton	(CL-BIB-0214)
Comparative Research in Analytical Pathology	(CL-BIB-0216)
Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms	(CL-BIB-0217)
Alveolar Type II Cells; Effect of Silica	(CL-BIB-0218)
Development of Methods to Interpret Metabolism Data	(CL-BIB-0281)
Cellular and Molecular Cardiac Toxicology	(CL-BIB-0303)
Arylamine Adducts in Blood as Indicators of Exposure	(CL-BIB-0304)

<u>TOXICITY TESTING (II) (continued)</u>			
Development of Short Term Assays to Predict Dust-Induced Lung Disease	(CL-818-0305)	<u>VANADIUM PENTOXIDE (1314-62-12)</u> V2O5- NIP Chemical Manager	(CL-818-0181)
Evaluation of Mesothelioma Production by Asbestos Substitutes	(CL-818-0306)	<u>VINYL CHLORIDE (75-01-4)</u> Update of Completed Cohort Mortality Studies - MCI	(CL-818-0227)
Particulate and Tissue Analysis Service and Research	(CL-818-0307)	<u>VOLATILE ORGANIC COMPOUNDS (CL-VOC)</u> Organic Solvent Cleaning MESNAP	(CL-818-0014)
Pulmonary Response to Inhaled Fibrogenic Minerals	(CL-818-0308)	Update of a Data Base on VOC in the Atmosphere	(CL-818-0106)
Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis	(CL-818-0309)	Destruction of VOC/HAP Emissions via Catalytic Incineration	(CL-818-0116)
<u>TRANSPORTATION BY AIR (65)</u>		Field Assessment of Steam VOC Removal Efficiencies	(CL-818-0140)
Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data	(CL-818-0294)	Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water	(CL-818-0143)
<u>TRANSPORTATION EQUIPMENT (37)</u>		Toxics Air Monitoring Systems (TAMS)	(CL-818-0286)
Mortality Analysis of United Auto Workers Cohorts	(CL-818-0219)	Toxics and VOC Research Program Priority Development	(CL-818-0328)
<u>TRICHLOROETHANE, 1,1,1- (71-55-6)</u>		Development of Ultraviolet Curing for Furniture Finishers	(CL-818-0331)
Organic Solvent Cleaning MESNAP	(CL-818-0014)	Evaluation of HAP Controls under Transient Conditions	(CL-818-0332)
<u>TRICHLOROETHYLENE (79-01-6)</u>		VOC and HAP Control of Department of Defense Facilities	(CL-818-0335)
Organic Solvent Cleaning MESNAP	(CL-818-0014)	Vapor Phase Catalytic Oxidation of Mixed Volatile Organic Compounds	(CL-818-0337)
Interdous Organic MESNAP	(CL-818-0261)	<u>WELDING FUMES (CL-WELD)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-818-0202)
Health Assessment for Trichloroethylene-Cancer Update	(CL-818-0262)	Prospective Study of Welders of Mild Steel	(CL-818-0212)
<u>TRICHLOROPHENOL, 2,4,5- (95-95-6)</u>		Cohort Mortality Study of Welders who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-818-0240)
Mortality of Dioxin Workers	(CL-818-0226)	<u>WELDING REPAIR (7692)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-818-0202)
<u>TRICHLOROTRIFLUOROETHANE, 1,1,2- (76-13-1)</u>		Prospective Study of Welders of Mild Steel	(CL-818-0212)
Organic Solvent Cleaning MESNAP	(CL-818-0014)	Cohort Mortality Study of Welders who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-818-0240)
<u>TRIETHYL PHOSPHATE (78-40-0)</u>		<u>WELDING REPAIR (7692)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-818-0202)
Risk Analysis of Existing Data on Triethyl Phosphate	(CL-818-0075)	Prospective Study of Welders of Mild Steel	(CL-818-0212)
<u>UPOLYSTERED HOUSEHOLD FURNITURE (25122)</u>		Cohort Mortality Study of Welders who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-818-0240)
Development of Ultraviolet Curing for Furniture Finishers	(CL-818-0331)	<u>WELDING REPAIR (7692)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders	(CL-818-0202)
<u>URANIUM-RADIUM-VANADIUM ORES (1094)</u>		Prospective Study of Welders of Mild Steel	(CL-818-0212)
Long Term Effects of Exposure to Low Doses of Radon Daughters - MCI	(CL-818-0244)		

<u>WELDING REPAIR (7492) (continued)</u> Cohort Mortality Study of Welders who Have Not Been Exposed to Asbestos, Nickel, or Chromium	<u>ZINC OXIDE, FUME (1314-13-2)</u> Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act
<u>WHOLESALE TRADE-MONUMENTAL GOODS (51)</u> Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments	
<u>WOOD HOUSEHOLD FURNITURE (2511)</u> Development of Ultraviolet Curing for Furniture Finishers	
<u>WOOD OFFICE FURNITURE (2521)</u> Development of Ultraviolet Curing for Furniture Finishers	
<u>WOOD PRODUCTS, NEC (2499)</u> Control of Hazardous/Toxic Air Pollutant Emissions: Water Board Manufacturing Plant	
<u>WOOD SMOKE (CL-WOOD)</u> Integrated Air Cancer Project: Wood Stove Operating Profiles	
Analytical Methods Development for Toxic Substances	
Catalytic Wood Stove Field Performance and Emission Monitoring	
Determining Wood Stove Catalyst Emission Control Performance Degradation	
Study of the Effects of Appliance Type and Operating Variables on Residential Wood Combustion Emissions	
North West Wood Stove Study	
<u>WRECKING AND DEMOLITION WORK (1795)</u> Asbestos RESHAP Revision	
<u>XYLENE (1330-20-7)</u> Decision on Regulation of Xylene Under the Clean Air Act	
<u>ZINC (7440-66-6)</u> Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act	
	<u>NUMERIC TERMS</u>
	<u>01 (AGRICULTURAL PRODUCTION-CROPS)</u> Pesticide Impact Study from Field and Slash Burning (CL-B18-0159) Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho (CL-B18-0296) <u>013 (FIELD CROPS, EXCEPT CASH GRAINS)</u> Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho (CL-B18-0296) <u>0133 (SUGAR CROPS)</u> Process Evaluation of Ambient Air Monitoring Near a Sugar Beet Processing Plant in Idaho (CL-B18-0296) <u>07 (AGRICULTURAL SERVICES)</u> Pesticide Impact Study from Field and Slash Burning (CL-B18-0159) A Study of Worker Exposure to Grain Fumigants (CL-B18-0249) Occupational Exposure During Sugar Cane Harvesting (CL-B18-0250) <u>072 (CROP SERVICES)</u> A Study of Worker Exposure to Grain Fumigants (CL-B18-0249) Occupational Exposure During Sugar Cane Harvesting (CL-B18-0250) <u>08 (FORESTRY)</u> Pesticide Impact Study from Field and Slash Burning (CL-B18-0159) <u>10 (METAL MINING)</u> National Occupational Health Survey of Mining (CL-B18-0198) Long Term Effects of Exposure to Low Doses of Radon Daughters - MCI (CL-B18-0244) Pulmonary Response to Inhaled Fibrogenic Minerals (CL-B18-0308)

<u>100-42-5 (STYRENE)</u> Decision on Regulation of Styrene Under the Clean Air Act (CL-B18-0049)	<u>101-77-9 (METHYLENEDIANILINE, 4,4'-)</u> Causes of Mortality Among Workers Exposed to Methylenedianiline (CL-B18-0239)
Update of Completed Cohort Mortality Studies - NCI (CL-B18-0227)	<u>103-45-7 (ACETIC ACID, PHENETHYL ESTER)</u> Information Gathering and Risk Analysis of Existing Data on Phenylethanol Acetate (CL-B18-0078)
<u>10043-92-2 (RADON)</u> Demonstration of Low-Cost Reduction of Indoor Radon From Soil (CL-B18-0129)	<u>106-99-0 (BUTADIENE, 1,3-)</u> Update of Completed Cohort Mortality Studies - NCI (CL-B18-0227)
Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI (CL-B18-0244)	Exposure to Butadiene in the Industrial Environment (CL-B18-0234)
Clinton, New Jersey Radon Mitigation Follow-up and Long-term Testing (CL-B18-0310)	Hazardous Organic MESHA (CL-B18-0261)
Demonstration of Mitigative Techniques in Existing Houses and New House Construction Techniques to Control Indoor Radon Exposure (CL-B18-0311)	<u>107-02-8 (ACROLEIN)</u> Decision on Regulation of Acrolein Under the Clean Air Act (CL-B18-0035)
Development and Demonstration of Indoor Radon Reduction Measures for Homes (CL-B18-0312)	Health Assessment Document for Acrolein (CL-B18-0059)
Investigation of Radon Entry into Dwellings and the Effects of Selected Radon Mitigation Techniques (CL-B18-0313)	Acrolein Preliminary Source Assessment (CL-B18-0254)
Development and Demonstration of Indoor Radon Reduction Measure for up to Ten Homes in New Jersey (CL-B18-0314)	<u>107-06-2 (ETHYLENE DICHLORIDE)</u> Hazardous Organic MESHA (CL-B18-0261)
Evaluate Radon Mitigation Systems Installed by Local Contractors and Individual Homeowners in Clinton, N. J. (CL-B18-0315)	<u>107-13-1 (ACRYLONITRILE)</u> EPA-State Pilot Project For the Control of Acrylonitrile Emissions (CL-B18-0027)
Investigation of Radon Entry into Houses and Effectiveness of Mitigation Techniques - Evaluation Phase (CL-B18-0317)	<u>108-31-6 (MALEIC ANHYDRIDE)</u> Decision on Regulation of Maleic Anhydride Under the Clean Air Act (CL-B18-0276)
Development and Demonstration of Indoor Radon Reduction Measures for Homes (CL-B18-0318)	<u>108-88-3 (TOLUENE)</u> Mortality and Industrial Hygiene Study of Workers Exposed to Toluene (CL-B18-0222)
<u>101-14-4 (URENE)</u> Investigation of Workers Exposed to MOCA (CL-B18-0225)	<u>109 (MISCELLANEOUS METAL ORES)</u> Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI (CL-B18-0244)
Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-B18-0232)	<u>1094 (URANIUM-RADIUM-VANADIUM ORES)</u> Long Term Effects of Exposure to Low Doses of Radon Daughters - NCI (CL-B18-0244)
Arylamine Adducts in Blood as Indicators of Exposure (CL-B18-0304)	<u>11 (ANTHRACITE MINING)</u> National Occupational Health Survey of Mining (CL-B18-0198)
	Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions (CL-B18-0201)

11 (ANTHRACITE MINING) (continued) Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners (CL-BIB-0205)	121 (BITUMINOUS COAL AND LIGNITE MINING) Comparative Research in Analytical Pathology (CL-BIB-0216)
National Coal Study and Coal Worker Surveillance (CL-BIB-0206)	124-40-3 (DIMETHYLAMINE) Decision on Regulation of Dimethylamine Under the Clean Air Act (CL-BIB-0269)
Comparative Research in Analytical Pathology (CL-BIB-0216)	127-18-4 (TETRACHLOROETHYLENE) Organic Solvent Cleaning WESHAP (CL-BIB-0014)
Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-BIB-0217)	Update of Completed Cohort Mortality Studies - MCI (CL-BIB-0227)
Alveolar Type II Cells; Effect of Silica (CL-BIB-0218)	Hazardous Organic WESHAP (CL-BIB-0261)
111 (ANTHRACITE MINING) Comparative Research in Analytical Pathology (CL-BIB-0216)	129-00-0 (PYRENE) Biomonitoring of Exposure to Coal Tar (CL-BIB-0163)
111-96-6 (METHOXYETHYLENE BIS-2-) Metabolism and Excretion Studies of Bis(2-Methoxyethyl) Ether(Diglyme) (CL-BIB-0178)	13 (OIL AND GAS EXTRACTION) National Occupational Health Survey of Mining (CL-BIB-0198)
115-07-1 (PROPYLENE) Decision on Regulation of Propylene Under the Clean Air Act (CL-BIB-0265)	Mortality of Diesel Exposed Miners (CL-BIB-0213)
117-81-7 (ETHYLENEGLYCOLPHthalate, BIS-2-) Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA (CL-BIB-0232)	1309-37-1 (IRON OXIDE FUME) Morbidity and Industrial Hygiene Study of Mild Steel Welders (CL-BIB-0202)
117-82-8 (PHTHALIC ACID, DI(METHOXYETHYL) ESTER) Data Gathering and Risk Analysis of Existing Data on Dimethoxyethyl Phthalate and Other Phthalate Esters (CL-BIB-0076)	1310-73-2 (SODIUM HYDROXIDE) Decision on Regulation of Sodium Hydroxide Under the Clean Air Act (CL-BIB-0272)
12 (BITUMINOUS COAL AND LIGNITE MINING) National Occupational Health Survey of Mining (CL-BIB-0198)	1314-13-2 (ZINC OXIDE, FUME) Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act (CL-BIB-0053)
Epidemiologic Environmental Study - Coal Miners Exposed to Diesel Emissions (CL-BIB-0201)	1314-62-1 (VANADIUM PENTOXIDE) V205- MTP Chemical Manager (CL-BIB-0181)
Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners (CL-BIB-0205)	132-64-9 (DIBENZOFURAN) Health Assessment Document for Dibenzofurans (CL-BIB-0064)
National Coal Study and Coal Worker Surveillance (CL-BIB-0206)	1330-20-7 (XYLENE) Decision on Regulation of Xylene Under the Clean Air Act (CL-BIB-0052)
Comparative Research in Analytical Pathology (CL-BIB-0216)	1332-21-4 (ASBESTOS) Asbestos WESHAP Revision (CL-BIB-0018)
Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-BIB-0217)	Evaluation of Mesothelioma Production by Asbestos Substitutes (CL-BIB-0162)
Alveolar Type II Cells; Effect of Silica (CL-BIB-0218)	

- 1332-21-4 (ASBESTOS) (continued)
Study of Workers in the Dusty Trades in North Carolina - MCI
(CL-B1B-0207)
- Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense
Mechanisms
(CL-B1B-0217)
- Development of Short Term Assays to Predict
Dust-Induced Lung Disease
(CL-B1B-0305)
- Evaluation of Mesothelioma Production by
Asbestos Substitutes
(CL-B1B-0306)
- 1332-37-2 (IRON OXIDE)
Morbidity and Industrial Hygiene Study of Mild Steel Welders
(CL-B1B-0202)
- 1336-36-3 (POLYCHLORINATED BIPHENYLS)
Locating and Estimating Air Emissions From Sources of
Polychlorinated Biphenyls (PCB)
(CL-B1B-0023)
- New York State Stack Sampling of Resource Recovery Plants
(CL-B1B-0146)
- Update of Completed Cohort Mortality Studies - MCI
(CL-B1B-0227)
- 14 (NONMETALLIC MINERALS, EXCEPT FUELS)
National Occupational Health Survey of Mining
(CL-B1B-0198)
- Health Experience of Industrial Sand Workers
(CL-B1B-0208)
- Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense
Mechanisms
(CL-B1B-0217)
- Alveolar Type II Cells; Effect of Silica
(CL-B1B-0218)
- Role of Alveolar Cell Interactions in the
Pathogenesis of Silicosis
(CL-B1B-0309)
- 144 (SAND AND GRAVEL)
Health Experience of Industrial Sand Workers
(CL-B1B-0208)
- Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense
Mechanisms
(CL-B1B-0217)
- Role of Alveolar Cell Interactions in the
Pathogenesis of Silicosis
(CL-B1B-0309)
- 1442 (CONSTRUCTION SAND AND GRAVEL)
Role of Alveolar Cell Interactions in the
Pathogenesis of Silicosis
(CL-B1B-0309)
- 149 (MISCELLANEOUS NONMETALLIC MINERALS)
Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense
Mechanisms
(CL-B1B-0217)
- 15 (GENERAL BUILDING CONTRACTORS)
Asbestos MESNAP Revision
(CL-B1B-0018)
- 16 (HEAVY CONSTRUCTION CONTRACTORS)
Asbestos MESNAP Revision
(CL-B1B-0018)
- 17 (SPECIAL TRADE CONTRACTORS)
Asbestos MESNAP Revision
(CL-B1B-0018)
- Prospective Study of Welders of Mild Steel
(CL-B1B-0212)
- 1746-01-6 (TETRACHLOROIBENZODIOXIN 2,3,7,8-P-)
Validate an Emission Test Method for Dioxins
(CL-B1B-0082)
- Morbidity and Reproductive Studies of Worker Cohorts Exposed to
Dioxin
(CL-B1B-0236)
- 179 (MISC. SPECIAL TRADE CONTRACTORS)
Asbestos MESNAP Revision
(CL-B1B-0018)
- Prospective Study of Welders of Mild Steel
(CL-B1B-0212)
- 1795 (WRECKING AND DEMOLITION WORK)
Asbestos MESNAP Revision
(CL-B1B-0018)
- 1799 (SPECIAL TRADE CONTRACTORS, NEC)
Prospective Study of Welders of Mild Steel
(CL-B1B-0212)
- 1893-33-0 (PIPERONYL)
Chemical Hazard Information Profile
for Piperonyl-Based UV Light Stabilizers
(CL-B1B-0285)
- 20 (FOOD AND KINDRED PRODUCTS)
A Study of Worker Exposure to Grain Fumigants
(CL-B1B-0249)
- 204 (GRAIN MILL PRODUCTS)
A Study of Worker Exposure to Grain Fumigants
(CL-B1B-0249)
- 22 (TEXTILE MILL PRODUCTS)
Textile Industry Dyes and Pigment Lifecycle - Discharge/Release
Assessment
(CL-B1B-0120)
- Vysshinosis Prevention
(CL-B1B-0192)
- Comparative Research in Analytical Pathology
(CL-B1B-0216)

23 (APPAREL AND OTHER TEXTILE PRODUCTS) Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-BIB-0120)	2631 (PAPERBOARD MILLS) Assessment of Potential Emissions from Wafer Board Manufacturing Plants	(CL-BIB-0258)
24 (LUMBER AND WOOD PRODUCTS) Control of Hazardous/Toxic Air Pollutant Emissions; Wafer Board Manufacturing Plant	(CL-BIB-0333)	26471-62-5 (TOLUENE DIISOCYANATE) Cohort Mortality Study of Toluene Diisocyanate Exposed Workers	(CL-BIB-0243)
249 (MISCELLANEOUS WOOD PRODUCTS) Control of Hazardous/Toxic Air Pollutant Emissions; Wafer Board Manufacturing Plant	(CL-BIB-0333)	Assessment of Potential Sources of Toluene Diisocyanate (TDI) Emissions	(CL-BIB-0259)
2499 (WOOD PRODUCTS, NEC) Control of Hazardous/Toxic Air Pollutant Emissions; Wafer Board Manufacturing Plant	(CL-BIB-0333)	26 (CHEMICALS AND ALLIED PRODUCTS) Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-BIB-0120)
25 (FURNITURE AND FIXTURES) Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes	(CL-BIB-0148)
251 (HOUSEHOLD FURNITURE) Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	Temporal Factors Influencing Carcinogenicity of Industrial Chemicals	(CL-BIB-0190)
2511 (WOOD HOUSEHOLD FURNITURE) Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	Mortality Study of Chemical Plants in Kanawha Valley, West Virginia	(CL-BIB-0221)
2512 (UPHOLSTERED HOUSEHOLD FURNITURE) Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	Exposure to Butadiene in the Industrial Environment	(CL-BIB-0234)
2519 (HOUSEHOLD FURNITURE, NEC) Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	Morbidity and Mortality Study of Workers Exposed to Nitroglycerin	(CL-BIB-0247)
252 (OFFICE FURNITURE) Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	Phosgene Preliminary Source Assessment	(CL-BIB-0255)
2521 (WOOD OFFICE FURNITURE) Development of Ultraviolet Curing for Furniture Finishers	(CL-BIB-0331)	281 (INDUSTRIAL INORGANIC CHEMICALS) Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-BIB-0120)
26 (PAPER AND ALLIED PRODUCTS) Assessment of Potential Emissions from Wafer Board Manufacturing Plants	(CL-BIB-0258)	Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes	(CL-BIB-0148)
263 (PAPERBOARD MILLS) Assessment of Potential Emissions from Wafer Board Manufacturing Plants	(CL-BIB-0258)	2816 (INORGANIC PIGMENTS) Textile Industry Dyes and Pigment Lifecycle - Discharge/Release Assessment	(CL-BIB-0120)
		286 (INDUSTRIAL ORGANIC CHEMICALS) Temporal Factors Influencing Carcinogenicity of Industrial Chemicals	(CL-BIB-0190)
		Phosgene Preliminary Source Assessment	(CL-BIB-0255)
		2869 (INDUSTRIAL ORGANIC CHEMICALS, NEC) Phosgene Preliminary Source Assessment	(CL-BIB-0255)

- 2892 (MISCELLANEOUS CHEMICAL PRODUCTS)
Morbidity and Mortality Study of Workers Exposed to Nitroglycerin
(CL-B18-0247)
- 2892 (EXPLOSIVES)
Morbidity and Mortality Study of Workers Exposed to Nitroglycerin
(CL-B18-0247)
- 309-00-2 (ALDRIN)
Evaluation of Guidance for the Re-registration of Pesticide Products Containing Aldrin as the Active Ingredient
(CL-B18-0301)
- 33 (PRIMARY METAL INDUSTRIES)
Coke Oven Emissions: Charging, Topside Leaks, Door Leaks MESHAP
(CL-B18-0012)
- Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes
(CL-B18-0148)
- Morbidity and Industrial Hygiene Study of Mild Steel Welders
(CL-B18-0202)
- Cohort Mortality Study of Antimony Smelter Workers
(CL-B18-0233)
- Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium
(CL-B18-0240)
- Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills
(CL-B18-0241)
- Mortality of Sulfuric Acid Exposed Workers
(CL-B18-0246)
- 331 (BLAST FURNACE AND BASIC STEEL PRODUCTS)
Coke Oven Emissions: Charging, Topside Leaks, Door Leaks MESHAP
(CL-B18-0012)
- Morbidity and Industrial Hygiene Study of Mild Steel Welders
(CL-B18-0202)
- Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium
(CL-B18-0240)
- Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills
(CL-B18-0241)
- Mortality of Sulfuric Acid Exposed Workers
(CL-B18-0246)
- 3312 (BLAST FURNACES AND STEEL MILLS)
Coke Oven Emissions: Charging, Topside Leaks, Door Leaks MESHAP
(CL-B18-0012)
- 332 (IRON AND STEEL FOUNDRIES)
Morbidity and Industrial Hygiene Study of Mild Steel Welders
(CL-B18-0202)
- Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium
(CL-B18-0240)
- Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills
(CL-B18-0241)
- Mortality of Sulfuric Acid Exposed Workers
(CL-B18-0246)
- 334 (SECONDARY NONFERROUS METALS)
Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes
(CL-B18-0148)
- 34 (FABRICATED METAL PRODUCTS)
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers
(CL-B18-0153)
- 344 (FABRICATED STRUCTURAL METAL PRODUCTS)
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers
(CL-B18-0153)
- 3443 (FABRICATED PLATE WORK (BOILER SHOPS))
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers
(CL-B18-0153)
- 37 (TRANSPORTATION EQUIPMENT)
Mortality Analysis of United Auto Workers Cohorts
(CL-B18-0219)
- 371 (MOTOR VEHICLES AND EQUIPMENT)
Mortality Analysis of United Auto Workers Cohorts
(CL-B18-0219)
- 38 (INSTRUMENTS AND RELATED PRODUCTS)
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers
(CL-B18-0153)
- 384 (MEDICAL INSTRUMENTS AND SUPPLIES)
Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers
(CL-B18-0153)
- 45 (TRANSPORTATION BY AIR)
Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data
(CL-B18-0294)
- 458 (AIR TRANSPORTATION SERVICES)
Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data
(CL-B18-0294)

45B2 (AIRPORTS AND FLYING FIELDS)

Air Carcinogens Near Airports: a Literature Review of Modeling and Monitoring Data

(CL-B18-0294)

49 (ELECTRIC, GAS, AND SANITARY SERVICES)

Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities

(CL-B18-0030)

List of Superfund Hazardous Waste Sites with Air Contamination Problems

(CL-B18-0054)

Potential for Air Releases From CERCLA Sites

(CL-B18-0055)

Evaluate the Contribution of Source Emissions to Cancer Risk

(CL-B18-0113)

Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System

(CL-B18-0137)

Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility

(CL-B18-0138)

Field Assessment of Steam VOC Removal Efficiencies

(CL-B18-0140)

Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities

(CL-B18-0141)

Field Assessment of Fate of Organics in Aerated Treatment Systems

(CL-B18-0142)

Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water

(CL-B18-0143)

Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants

(CL-B18-0145)

New York State Stack Sampling of Resource Recovery Plants

(CL-B18-0146)

Municipal Waste Combustion Study

(CL-B18-0266)

Dioxin Analysis of Hospital Incinerator Ash

(CL-B18-0292)

The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility

(CL-B18-0293)

Estimation of Hazardous Air Emissions in Southeast Chicago from TSD

(CL-B18-0295)

49 (ELECTRIC, GAS, AND SANITARY SERVICES) (continued)

Ambient Air Monitoring for PCBs in El Dorado, Arkansas

(CL-B18-0299)

492 (GAS PRODUCTION AND DISTRIBUTION)

Evaluate the Contribution of Source Emissions to Cancer Risk

(CL-B18-0113)

4925 (GAS PRODUCTION AND/OR DISTRIBUTION)

Evaluate the Contribution of Source Emissions to Cancer Risk

(CL-B18-0113)

495 (SANITARY SERVICES)

Exposure/Risk Assessment on Air Emissions From Treatment, Storage and Disposal Facilities

(CL-B18-0030)

List of Superfund Hazardous Waste Sites with Air Contamination Problems

(CL-B18-0054)

Potential for Air Releases From CERCLA Sites

(CL-B18-0055)

Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System

(CL-B18-0137)

Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility

(CL-B18-0138)

Field Assessment of Steam VOC Removal Efficiencies

(CL-B18-0140)

Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities

(CL-B18-0141)

Field Assessment of Fate of Organics in Aerated Treatment Systems

(CL-B18-0142)

Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water

(CL-B18-0143)

Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants

(CL-B18-0145)

New York State Stack Sampling of Resource Recovery Plants

(CL-B18-0146)

Municipal Waste Combustion Study

(CL-B18-0266)

Dioxin Analysis of Hospital Incinerator Ash

(CL-B18-0292)

<u>495 (SANITARY SERVICES) (continued)</u>		<u>4953 (REFUSE SYSTEMS) (continued)</u>	
The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility	(CL-B18-0293)	Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF	(CL-B18-0295)
Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF	(CL-B18-0295)	Ambient Air Monitoring for PCBs in El Dorado, Arkansas	(CL-B18-0299)
Ambient Air Monitoring for PCBs in El Dorado, Arkansas	(CL-B18-0299)	<u>4959 (SANITARY SERVICES, NEC)</u>	
Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF		Estimation of Hazardous Air Emissions in Southeast Chicago from TSDF	(CL-B18-0295)
<u>4952 (SEWERAGE SYSTEMS)</u>		<u>50-00-0 (FORMALDEHYDE)</u>	
The Air Toxics Screening at the Blue Plains Wastewater Treatment Facility	(CL-B18-0293)	Decision on Regulation of Formaldehyde Under the Clean Air Act	(CL-B18-0040)
Rhode Island Toxics Integration Project--Evaluation of Emission from Sewage Treatment Plants	(CL-B18-0145)	Effects of Formaldehyde on the Respiratory System	(CL-B18-0210)
<u>4953 (REFUSE SYSTEMS)</u>		Mortality and Industrial Hygiene Study of Formaldehyde	(CL-B18-0223)
Exposure/Risk Assessment on Air Emissions from Treatment, Storage and Disposal Facilities	(CL-B18-0030)	Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA	(CL-B18-0232)
List of Superfund Hazardous Waste Sites with Air Contamination Problems	(CL-B18-0054)	<u>50-32-8 (BENZO(A)PYRENE)</u>	
Potential for Air Releases from CERCLA Sites	(CL-B18-0055)	Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms	(CL-B18-0217)
Field Assessment of Surface Impoundment Air Emissions and Their Control Using an Inflated Dome and Carbon Adsorption System	(CL-B18-0137)	<u>51 (WHOLESALE TRADE-NONDURABLE GOODS)</u>	
Field Assessment of Air Emissions and Their Control at a Refinery Land Treatment Facility	(CL-B18-0138)	Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments	(CL-B18-0028)
Field Assessment of Steam VOC Removal Efficiencies	(CL-B18-0140)	<u>517 (PETROLEUM AND PETROLEUM PRODUCTS)</u>	
Field Assessment of Waste Pretreatment at Refinery Land Treatment Facilities	(CL-B18-0141)	Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments	(CL-B18-0028)
Field Assessment of Fate of Organics in Aerated Treatment Systems	(CL-B18-0142)	<u>55 (AUTOMOTIVE DEALERS & SERVICE STATIONS)</u>	
Selection Guide for Mobile/Transportable Treatment Technologies for the Removal of Volatile Organics from Water	(CL-B18-0143)	Organic Solvent Cleaning MESNAP	(CL-B18-0014)
New York State Stack Sampling of Resource Recovery Plants	(CL-B18-0146)	Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments	(CL-B18-0028)
Municipal Waste Combustion Study	(CL-B18-0266)	<u>55-63-0 (NITROGLYCERINE)</u>	
Disin Analysis of Hospital Incinerator Ash	(CL-B18-0292)	Morbidity and Mortality Study of Workers Exposed to Nitroglycerin	(CL-B18-0247)
		<u>556 (GASOLINE SERVICE STATIONS)</u>	
		Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments	(CL-B18-0028)
		<u>56-23-5 (CARBON TETRACHLORIDE)</u>	
		Hazardous Organic MESNAP	(CL-B18-0261)

<u>57-74-9 (CHLORDANE)</u> Evaluation of Guidance for the Re-registration of Pesticide Products Containing Chlordane as the Active Ingredient	(CL-B1B-0302)	<u>71-55-6 (TRICHLOROETHANE, 1,1,1-2)</u> Organic Solvent Cleaning NESHAP	(CL-B1B-0014)
<u>584-84-9 (TOLUENE, 24, DIISOCYANATE)</u> Decision on Regulation of Toluene Diisocyanate Under the Clean Air Act	(CL-B1B-0050)	<u>72 (PERSONAL SERVICES)</u> Organic Solvent Cleaning NESHAP	(CL-B1B-0014)
<u>593-70-4 (CHLOROFLUOROMETHANE)</u> Regulatory Impact Analysis Engineering Support - Chlorofluorocarbon Use Category U1	(CL-B1B-0319)	<u>721 (LAUNDRY, CLEANING, & GARMENT SERVICES)</u> Organic Solvent Cleaning NESHAP	(CL-B1B-0014)
<u>Regulatory Impact Analysis Engineering Support-Chlorofluorocarbons Use Category U2</u>	(CL-B1B-0323)	<u>73 (BUSINESS SERVICES)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers	(CL-B1B-0153)
<u>CFC Chemical Substitutes</u>	(CL-B1B-0324)	<u>734 (SERVICES TO BUILDINGS)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers	(CL-B1B-0153)
<u>598-55-0 (METHYL CARBANATE)</u> Chemical Hazard Information Profile for Methyl Carbanate	(CL-B1B-0283)	<u>734.2 (DISINFECTING AND EXTERMINATING)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers	(CL-B1B-0153)
<u>60-12-8 (PHENETHYL ALCOHOL)</u> Information Gathering and Risk Analysis of Existing Data on Phenylethanol	(CL-B1B-0077)	<u>74-90-8 (HYDROGEN CYANIDE)</u> Decision on Regulation of Hydrocyanic Acid Under the Clean Air Act	(CL-B1B-0264)
<u>624-83-9 (METHYL ISOCYANATE)</u> Decision on Regulation of Methyl Isocyanate Under the Clean Air Act	(CL-B1B-0051)	<u>7440-02-0 (NICKEL POWDER)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel from Coal and Oil Combustion	(CL-B1B-0029)
<u>67-56-1 (METHANOL)</u> Decision on Regulation of Methanol Under the Clean Air Act	(CL-B1B-0278)	Develop Sampling Methods for Speciated Nickel	(CL-B1B-0081)
<u>67-66-3 (CHLOROFORM)</u> Hazardous Organic NESHAP	(CL-B1B-0261)	<u>7440-36-0 (ANTIMONY)</u> Cohort Mortality Study of Antimony Smelter Workers	(CL-B1B-0233)
<u>68-12-2 (DIMETHYLFORMAMIDE, N,N-2)</u> Dimethylformamide- NTP Chemical Manager	(CL-B1B-0186)	<u>7440-38-2 (ARSENIC AND COMPOUNDS AS AS)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel from Coal and Oil Combustion	(CL-B1B-0029)
<u>71-43-2 (BENZENE)</u> Evaluation of Air Pollution Strategies for Gasoline Marketing - Response to Public Comments	(CL-B1B-0028)	<u>7440-41-7 (BERYLLIUM)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel from Coal and Oil Combustion	(CL-B1B-0029)
Update of Completed Cohort Mortality Studies - MCI	(CL-B1B-0227)	Health Assessment Document for Beryllium, External Review	(CL-B1B-0057)
Locating and Estimating Air Emissions from Sources of Benzene	(CL-B1B-0262)	Beryllium Retrospective Cohort Investigation - MCI	(CL-B1B-0229)
		<u>7440-43-9 (CADMIUM)</u> Cadmium NESHAP	(CL-B1B-0010)

<u>7440-43-9 (CADMIUM) (continued)</u> Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion	(CL-BIB-0029)
Neurotoxicity from Exposure to Heavy Metals	(CL-BIB-0168)
Update of Completed Cohort Mortality Studies - NCI	(CL-BIB-0227)
<u>7440-47-3 (CHROMIUM)</u> Chromium NESHAP	(CL-BIB-0020)
Estimating Exposure to Arsenic, Beryllium, Cadmium, Chromium, and Nickel From Coal and Oil Combustion	(CL-BIB-0029)
Analysis of Hazardous Pollutants from Ferrochromium Alloy Processes	(CL-BIB-0148)
Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - NCI	(CL-BIB-0228)
Chromium Project for Industrial Cooling Towers	(CL-BIB-0260)
Health Assessment for Chromium, Update	(CL-BIB-0279)
<u>7440-66-6 (ZINC)</u> Decision on Regulation of Zinc and Zinc Oxide Under the Clean Air Act	(CL-BIB-0053)
<u>7487-94-7 (MERCURIC CHLORIDE)</u> Decision on Regulation of Mercuric Chloride Under the Clean Air Act	(CL-BIB-0277)
<u>75-00-3 (CHLOROETHANE)</u> Decision on Regulation of Ethyl Chloride Under the Clean Air Act	(CL-BIB-0268)
<u>75-01-4 (VINYL CHLORIDE)</u> Update of Completed Cohort Mortality Studies - NCI	(CL-BIB-0227)
<u>75-07-0 (ACETALDEHYDE)</u> Decision on Regulation of Acetaldehyde Under The Clean Air Act	(CL-BIB-0034)
Health Assessment Document for Acetaldehyde, External Review	(CL-BIB-0061)
Acetaldehyde Preliminary Source Assessment	(CL-BIB-0256)
<u>75-09-2 (METHYLENE CHLORIDE)</u> Organic Solvent Cleaning NESHAP	(CL-BIB-0014)
Hazardous Organic NESHAP	(CL-BIB-0261)
<u>75-21-8 (ETHYLENE OXIDE)</u> Emission Factors for Ethylene Oxide from Sterilizers and Fumigation Chambers	(CL-BIB-0153)
Temporal Factors Influencing Carcinogenicity of Industrial Chemicals	(CL-BIB-0190)
Mortality Study of Chemical Plants in Kanawha Valley, West Virginia	(CL-BIB-0221)
Ethylene Oxide Mortality Study - NCI	(CL-BIB-0224)
Epidemiologic and Industrial Support of Toxic Substance Control Act - EPA	(CL-BIB-0232)
Hazardous Organic NESHAP	(CL-BIB-0261)
Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II	(CL-BIB-0316)
<u>75-44-5 (PHOSGENE)</u> Decision on Regulation of Phosgene Under the Clean Air Act	(CL-BIB-0046)
Health Assessment Document for Phosgene, External Review	(CL-BIB-0063)
Phosgene Preliminary Source Assessment	(CL-BIB-0255)
<u>75-56-9 (PROPYLENE OXIDE)</u> Decision on Regulation of Propylene Oxide and Propylene Under the Clean Air Act	(CL-BIB-0048)
<u>76 (MISCELLANEOUS REPAIR SERVICES)</u> Morbidity and Industrial Hygiene Study Of Mild Steel Welders	(CL-BIB-0202)
Prospective Study of Welders of Mild Steel	(CL-BIB-0212)
Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium	(CL-BIB-0240)
<u>76-13-1 (TRICHLOROFLUOROMETHANE, 1,1,2-)</u> Organic Solvent Cleaning NESHAP	(CL-BIB-0014)

<u>76-44-8 (HEPTACHLOR)</u> Evaluation of Guidance for the Re-registration of Pesticide Products Containing Heptachlor as the Active Ingredient (CL-81B-0300)	<u>769 (MISCELLANEOUS REPAIR SHOPS)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders (CL-81B-0202)
<u>7631-86-9 (SILICA)</u> Effective Silica Indices of Respirable Mineral Dusts (CL-81B-0195)	Prospective Study of Welders of Mild Steel (CL-81B-0212)
Assessment of Coal Workers Pneumoconiosis and Respiratory Disease in Surface Miners (CL-81B-0205)	Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (CL-81B-0240)
Study of Workers in the Dusty Trades in North Carolina - MCI (CL-81B-0207)	<u>7692 (WELDING REPAIR)</u> Morbidity and Industrial Hygiene Study of Mild Steel Welders (CL-81B-0202)
Health Experience of Industrial Sand Workers (CL-81B-0208)	Prospective Study of Welders of Mild Steel (CL-81B-0212)
Polycyclic Aromatic Hydrocarbons, Particulates and Lung Defense Mechanisms (CL-81B-0217)	Cohort Mortality Study of Welders Who Have Not Been Exposed to Asbestos, Nickel, or Chromium (CL-81B-0240)
Alveolar Type II Cells; Effect of Silica (CL-81B-0218)	<u>7723-14-0 (PHOSPHOROUS (YELLOW))</u> Decision on Regulation of Phosphorus Under the Clean Air Act (CL-81B-0267)
Occupational Exposure During Sugar Cane Harvesting (CL-81B-0250)	<u>7738-97-6 (LEAD CHROMATE)</u> Mortality and Industrial Hygiene Characteristics of Workers Exposed to Lead Chromate Paints - MCI (CL-81B-0228)
Role of Alveolar Cell Interactions in the Pathogenesis of Silicosis (CL-81B-0309)	<u>7782-49-2 (SELENIUM COMPOUNDS, AS SE)</u> Decision on Regulation of Selenium and its Compounds Under the Clean Air Act (CL-81B-0270)
<u>7647-01-0 (HYDROGEN CHLORIDE)</u> Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act (CL-81B-0037)	<u>7782-50-5 (CHLORINE)</u> Decision on Regulation of Chlorine and Hydrochloric Acid Under the Clean Air Act (CL-81B-0037)
Health Assessment Document for Chlorine & Hydrogen Chloride, External Review (CL-81B-0280)	Source Test Methods for Ammonia and Chlorine (CL-81B-0084)
<u>7664-39-3 (HYDROGEN FLUORIDE)</u> Decision on Regulation of Hydrogen Fluoride Under the Clean Air Act (CL-81B-0274)	Health Assessment Document for Chlorine & Hydrogen Chloride, External Review (CL-81B-0280)
<u>7664-41-7 (AMMONIA)</u> Decision on Regulation of Ammonia Under the Clean Air Act (CL-81B-0036)	<u>7783-06-6 (HYDROGEN SULFIDE)</u> Decision on Regulation of Hydrogen Sulfide Under the Clean Air Act (CL-81B-0042)
Source Test Methods for Ammonia and Chlorine (CL-81B-0084)	Health Assessment Document for Hydrogen Sulfide, External Review (CL-81B-0062)
<u>7664-93-9 (SULFURIC ACID)</u> Cohort Study of Laryngeal Cancer Incidence Among Workers Exposed to Sulfuric Acid in Steel Mills (CL-81B-0241)	<u>78-40-0 (TRIETHYL PHOSPHATE)</u> Risk Analysis of Existing Data on Triethyl Phosphate (CL-81B-0075)
Mortality of Sulfuric Acid Exposed Workers (CL-81B-0246)	

<u>78-93-3 (BUTANONE, 2-)</u> Development and Evaluation of Biomonitoring Methods for Methyl Ethyl Ketone (CL-B1B-0164)	<u>91-20-3 (NAPHTHALENE)</u> Decision on Regulation of Naphthalene Under the Clean Air Act (CL-B1B-0044)
<u>79-01-6 (TRICHLOROETHYLENE)</u> Organic Solvent Cleaning MESHA Hazardous Organic MESHA Health Assessment for Trichloroethylene-Cancer Update (CL-B1B-0014) (CL-B1B-0261) (CL-B1B-0282)	<u>95-14-7 (BENZOTRIAZOLE, 1,2,3-)</u> Chemical Hazard Information Profile for Benzotriazol-Based UV Light (CL-B1B-0284)
<u>80 (HEALTH SERVICES)</u> Dioxin Analysis of Hospital Incinerator Ash Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II (CL-B1B-0292) (CL-B1B-0316)	<u>95-95-4 (TRICHLOROPHENOL, 2,4,5-)</u> Mortality of Dioxin Workers (CL-B1B-0226)
<u>80-62-6 (METHYL METHACRYLATE)</u> Decision on Regulation of Methyl Methacrylate Under the Clean Air Act (CL-B1B-0275)	
<u>8001-35-2 (TOXAPHENE)</u> Decision on Regulation of Camphochlor Under the Clean Air Act (CL-B1B-0273)	
<u>8052-42-4 (ASPHALT (PETROLEUM) FUMES)</u> Assessment of Cocarcinogenic Activity of Asphalt Fumes (CL-B1B-0174)	
<u>806 (HOSPITALS)</u> Dioxin Analysis of Hospital Incinerator Ash (CL-B1B-0292)	
Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II (CL-B1B-0316)	
<u>8062 (GENERAL MEDICAL & SURGICAL HOSPITALS)</u> Ethylene Oxide Control Technology Development Program for Hospital Sterilizers--Phase II (CL-B1B-0316)	
<u>85-41-6 (PHTHALIMIDE)</u> Risk Analysis of Existing Data on Phthalimide (CL-B1B-0079)	
<u>85-44-9 (PHTHALIC ANHYDRIDE)</u> Decision on Regulation of Phthalic Anhydride Under the Clean Air Act (CL-B1B-0271)	
<u>87-86-5 (PENTACHLOROPHENOL)</u> Mortality of Dioxin Workers (CL-B1B-0226)	

APPENDIX
EPA OFFICE OF DRINKING WATER PROJECTS

The EPA Office of Drinking Water (ODW) has studies underway on several potentially toxic chemicals as part of its regulatory development activities. Information on these projects has been included in the National Air Toxics Information Clearinghouse ongoing research and regulatory development projects document because many toxic drinking water contaminants being studied by ODW are also potential air pollutants. Clearinghouse users may find health information generated by ODW projects useful. For further information on the projects described below, contact: Joseph Cotruvo or Craig Vogt, Criteria and Standards Division, Office of Drinking Water (WH-550D), U. S. Environmental Protection Agency, 401 M Street, S.W., Washington, D.C., 20460, (202) 382-7575, (FTS) 382-7575.

Under the Safe Drinking Water Act (SDWA), the U. S. Environmental Protection Agency is required to publish regulations which apply to public drinking water systems and control specific contaminants which in the Administrator's judgment "may have any adverse effect on the health of persons." Information concerning these regulations is listed below.

Drinking Water Regulations
under
1986 Amendments to SDWA

Significant directives to EPA's standard-setting program for drinking water contaminants included in the 1986 Amendments to the SDWA are provided below:

- EPA is to set Maximum Contaminant Level Goals and National Primary Drinking Water Regulations for 83 specific contaminants and for any other contaminant in drinking water which may have any adverse effect upon the health of persons and which is known or anticipated to occur in public water systems.
- Recommended Maximum Contaminant Levels (RMCLs) are now termed Maximum Contaminant Level Goals (MCLGs). No changes were made in the basis of an MCLG; i.e.:

MCLGs are non-enforceable health goals which are to be set at the level at which no known or anticipated adverse effects on the health of persons occur and which allows an adequate margin of safety.

- Maximum Contaminant Levels (MCLs) are to be set as close to MCLGs as is feasible. The definition of "feasible" is as follows:

Feasible means with the use of the best technology, treatment techniques and other means, which the Administrator finds, after examination for efficacy under field conditions and not solely under laboratory conditions, are generally available (taking costs into consideration).

Granular Activated Carbon (GAC) is stated in the SDWA as feasible for the control of synthetic organic chemicals (SOCs), and any technology or other means found to be best available for control of SOCs must be at least as effective in controlling SOCs as GAC.

- MCLGs and MCLs are to be proposed at the same time and also promulgated simultaneously.
- MCLGs and MCLs/Monitoring requirements are to be set for 83 contaminants listed in the SDWA. The best available technology (BAT) must also be specified for each.

The 83 contaminants are shown in Table A-1. Seven substitutes are allowed if regulation of any seven other contaminants would be more protective of public health. The list of substitutes must be proposed by June 19, 1987.

- The timetable to produce the MCLGs and MCLs/Monitoring requirements is as follows:
 - 9 by June 19, 1987
 - 40 by June 19, 1988
 - 34 by June 19, 1989
- MCLGs and MCLs/Monitoring requirements are also to be set for other contaminants in drinking water that may pose a health risk.
 - The 1986 Amendments require the EPA to publish a list of drinking water contaminants that may require regulation under the SDWA.
 - The list must be published by January 1, 1988, and every 3 years following.
 - MCLGs and MCLs/Monitoring requirements are to be set for at least 25 contaminants on the list by January 1, 1991.
 - MCLGs and MCLs/Monitoring requirements are to be set for at least 25 contaminants every 3 years following January 1, 1991 (i.e., 1994, 1997, ...).
- Criteria must be established from which States can determine which surface water systems must install filtration. The criteria are to be set by December 19, 1987.
- A treatment technique regulation is to be set that will require all public water systems to use disinfection.
 - Variances are available. EPA will specify variance criteria.
 - The disinfection treatment rule must be promulgated by June 19, 1989.

- Requirements are to be set for water systems to monitor for unregulated contaminants.
 - Minimum monitoring frequency would be five years.
 - States can add/delete contaminants from list.
 - Monitoring regulations are to be promulgated by December 19, 1987.
- MCLGs and MCLs/Monitoring requirements are to be reviewed by EPA every three years.
- Other requirements/provisions of the 1986 Amendments:
 - Public notification regulations are to be changed to provide for different types and frequencies of notice depending upon the potential health risk. Final regulations are due September 19, 1987.
 - BAT for issuance of variances is to be set when MCLs are set. BAT may vary depending upon the size of systems and other factors, including costs.
 - Exemptions can be extended for systems with 500 connections or less. No limit is placed on the number of extensions but certain criteria will have to be met.
- A summary of deadlines pertinent to standard-setting is presented in Table A-2.
- The status of the National Primary Drinking Water Regulations is presented in Table A-3.

TABLE A-1. CONTAMINANTS REQUIRED TO BE REGULATED
UNDER THE SDWA OF 1986

<u>Volatile Organic Chemicals</u>	
Trichloroethylene	Benzene
Tetrachloroethylene	Chlorobenzene
Carbon tetrachloride	Dichlorobenzene
1,1,1-Trichloroethane	Trichlorobenzene
1,2-Dichloroethane	1,1-Dichloroethylene
Vinyl chloride	trans-1,2-Dichloroethylene
Methylene chloride	cis-1,2-Dichloroethylene
<u>Microbiology and Turbidity</u>	
Total coliforms	Viruses
Turbidity	Standard plate count
Giardia lamblia	Legionella
<u>Inorganics</u>	
Arsenic	Molybdenum
Barium	Asbestos
Cadmium	Sulfate
Chromium	Copper
Lead	Vanadium
Mercury	Sodium
Nitrate	Nickel
Selenium	Zinc
Silver	Thallium
Fluoride	Beryllium
Aluminum	Cyanide
Antimony	
<u>Organics</u>	
Endrin	1,1,2-Trichloroethane
Lindane	Vydate
Methoxychlor	Simazine
Toxaphene	PAHs
2,4-D	PCBs
2,4,5-TP	Atrazine
Aldicarb	Phthalates
Chlordane	Acrylamide
Dalapon	Dibromochloropropane (DBCP)
Diquat	1,2-Dichloropropane
Endothall	Pentachlorophenol

TABLE A-1. CONTAMINANTS REQUIRED TO BE REGULATED
UNDER THE SDWA OF 1986 (Continued)

<u>Organics (Continued)</u>	
Glyphosate	Pichloram
Carbofuran	Dinoseb
Alachlor	Ethylene dibromide (EDB)
Epichlorohydrin	Dibromomethane
Toluene	Xylene
Adipates	Hexachlorocyclopentadiene
2,3,7,8-TCDD (Dioxin)	
<u>Radionuclides</u>	
Radium 226 and 228	Gross alpha particle activity
Beta particle and photon radioactivity	Radon
Uranium	

TABLE A-2. SUMMARY OF DEADLINES FOR STANDARDS UNDER SDWA OF 1986

What	When
Nine MCLGs and MCLs/Monitoring Requirements	June 19, 1987
Propose Seven Substitutes	June 19, 1987
Public Notice Revisions	September 19, 1987
Filtration Criteria	December 19, 1987
Monitoring for Unregulated Contaminants	December 19, 1987
List of Contaminants	January 1, 1988
40 MCLGs and MCLs/Monitoring Requirements	June 19, 1988
34 MCLGs and MCLs/Monitoring Requirements	June 19, 1989
Disinfection Treatment	June 19, 1989
25 MCLGs and MCLs/Monitoring Requirements	January 1, 1991

TABLE A-3. NATIONAL REVISED PRIMARY DRINKING WATER REGULATIONS SCHEDULE

Phase	Date
Phase 1: VOCs	
Advance notice of proposed rulemaking	March 4, 1982
Proposed MCLGs	June 12, 1984
Final MCLGs, propose MCLs, monitoring requirements	November 13, 1985
Final MCLs and monitoring requirements	October 1986
Phase 2: SOCs, IOCs, Microbials	
Advance notice of proposed rulemaking	October 5, 1983
Proposed MCLGs	November 13, 1985
Phase 2A: Fluoride	
Advance notice of proposed rulemaking	October 5, 1983
Proposed MCLG	May 14, 1985
Final MCLG, proposed MCL, SMCL, monitoring requirements	November 14, 1985
Final MCL, SMCL, monitoring requirements	April 2, 1986
Phase 3: Radionuclides	
Advance notice of proposed rulemaking	September 30, 1986
Phase 4: Disinfection By-products	
MCLGs/MCLs	1991